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PALÉONTOLOGIE FRANÇAISE

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PALÉONTOLOGIE FRANÇAISE

OU

DESCRIPTION

DES FOSSILES DE LA FRANCE

continuée

PAR UNE RÉUNION DE PALÉONTOLOGISTES

SOUS

LA DIRECTION D'UN COMITÉ SPÉCIAL

1re Série. — **ANIMAUX INVERTÉBRÉS**

TERRAIN TERTIAIRE

TOME I

ÉCHINIDES ÉOCÈNES

Familles des Spatangidées, des Brissidées, des Échinonéidées et des Cassidulidées *(pars)*

PAR

G. COTTEAU

CORRESPONDANT DE L'INSTITUT

30537

ATLAS

PARIS

G. MASSON, ÉDITEUR

LIBRAIRE DE L'ACADÉMIE DE MÉDECINE

120, Boulevard Saint-Germain, en face de l'École de Médecine

1885-1889

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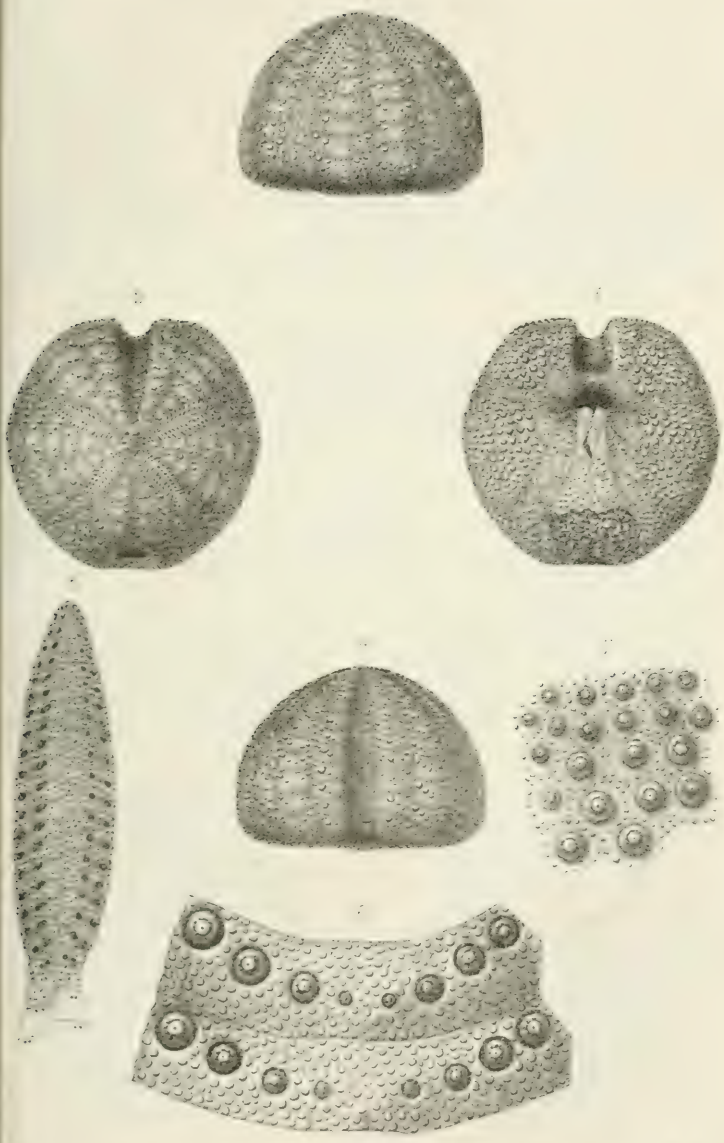
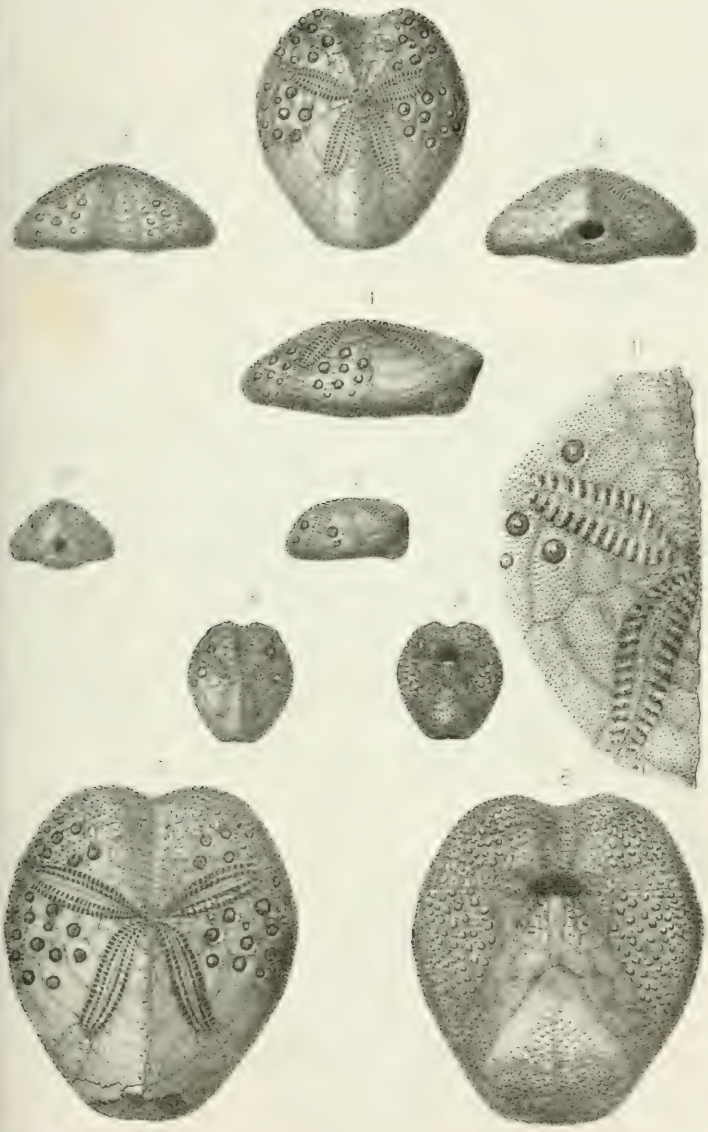
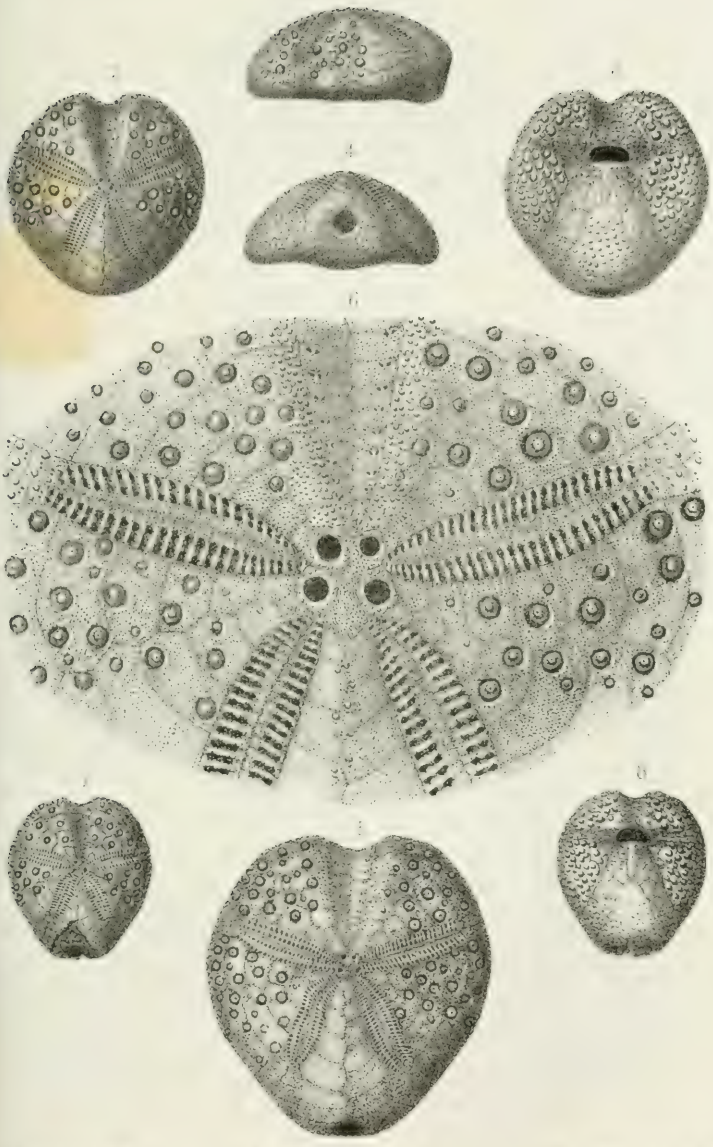
ATLAS



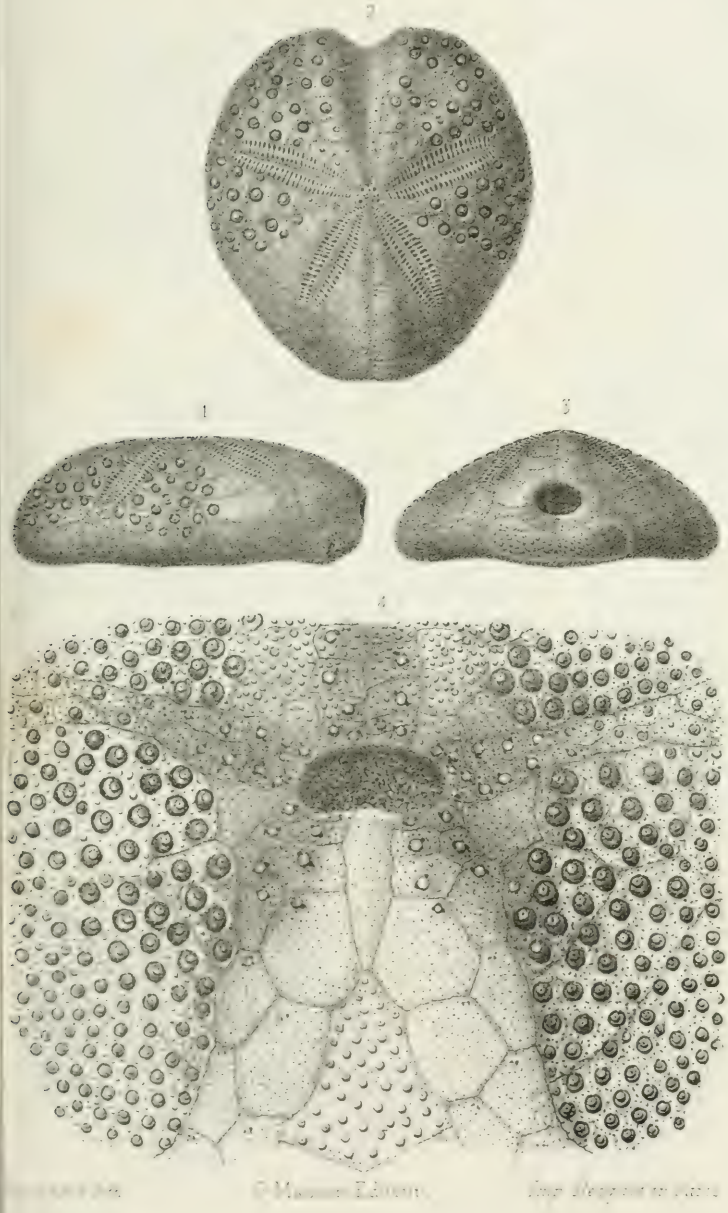
Spatangus pes equuli Le Hon Eocene moy



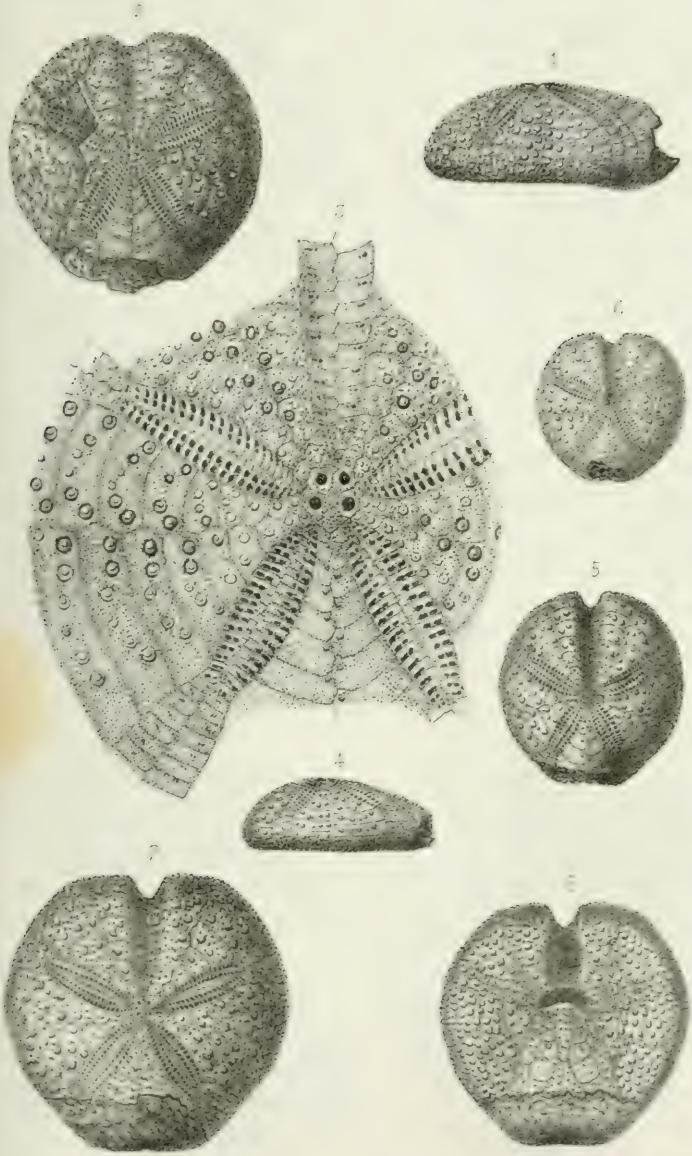
1–6. *Maretia Des Moulinsi*, Cotteau. *Eocène sup.*
7–11. *M.* ——— *Pellati*, ——— ———



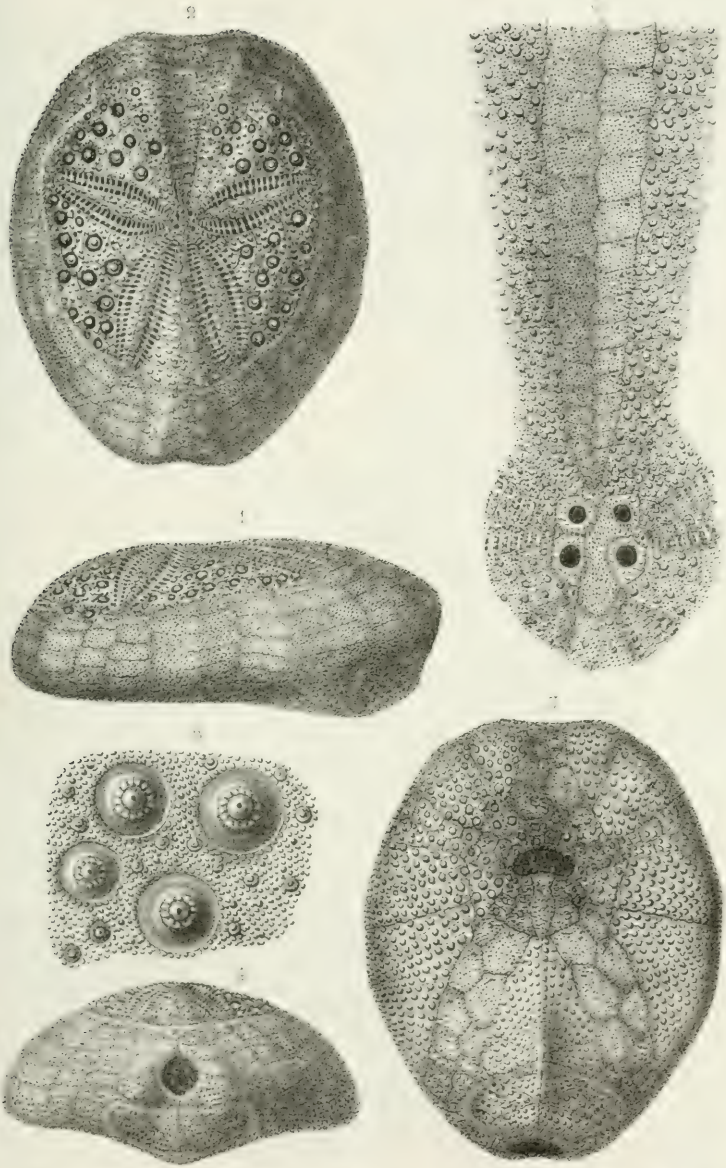
Maretia grignonensis (Desmarets), Cotteau. Eocène moy.



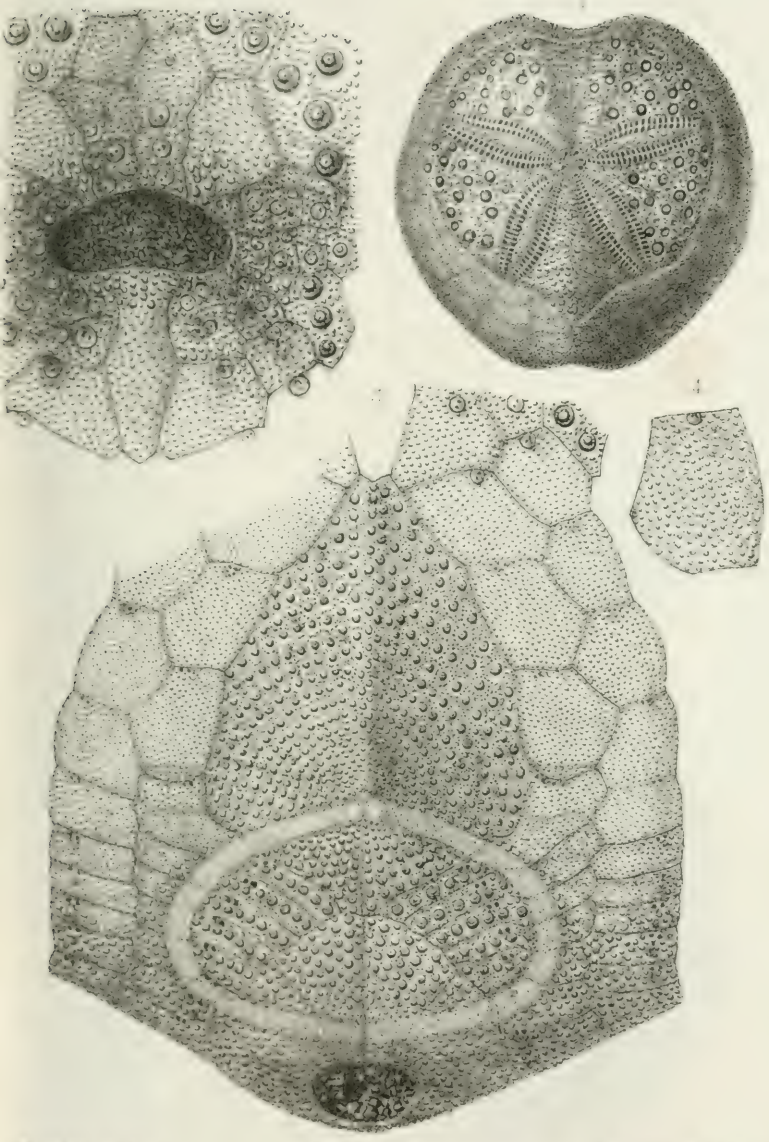
Murctia grignonensis (Desmarets), Cotteau. Eocène moy.



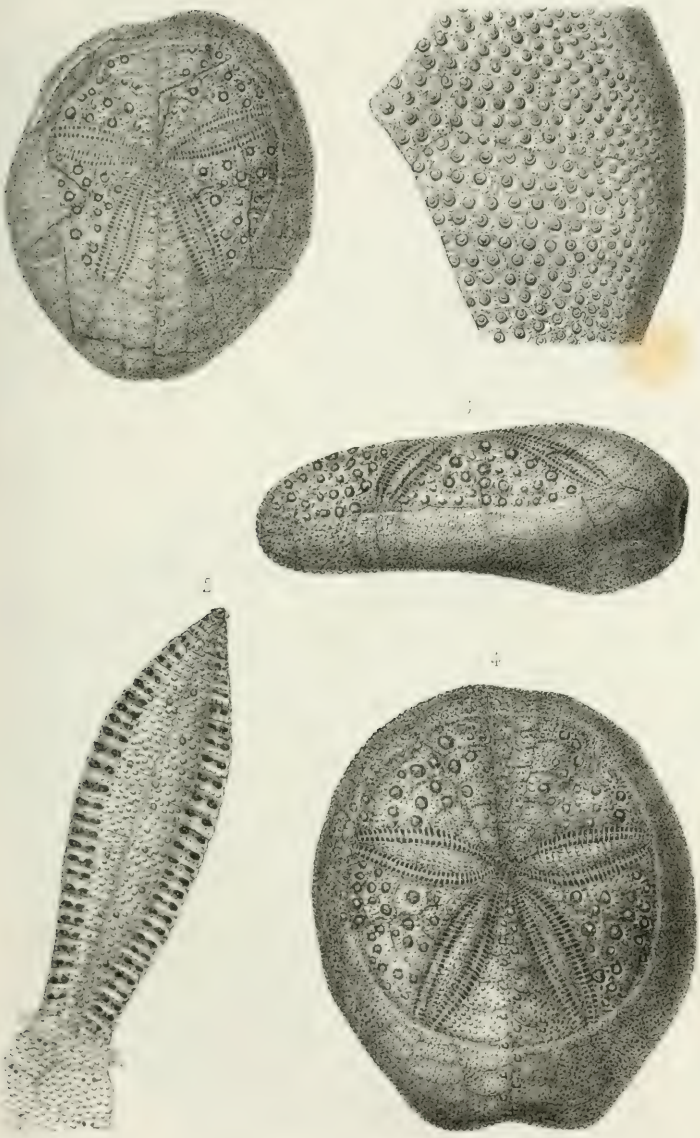
1. 3. *Marcia calvimontana* Cotteau. Éocène moy.
1. 8. *M. Heberti*



Euspatangus ornatus : Defrance ; Agassiz. Eocène sup.



Euspatangus ornatus (Defrance), Agassiz. Eocène sup.



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Euspatangus ornatus (Defrance), Agassiz. Eocene sup.

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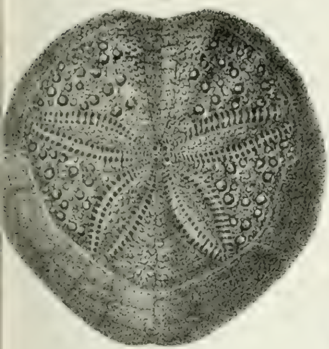

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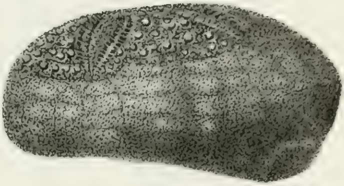

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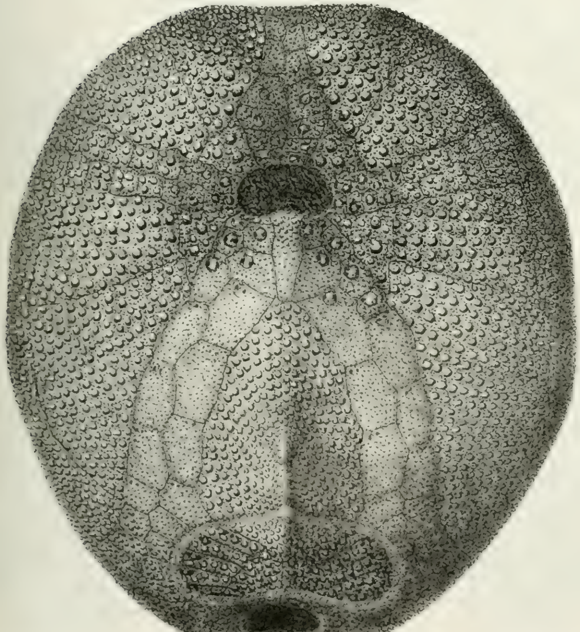

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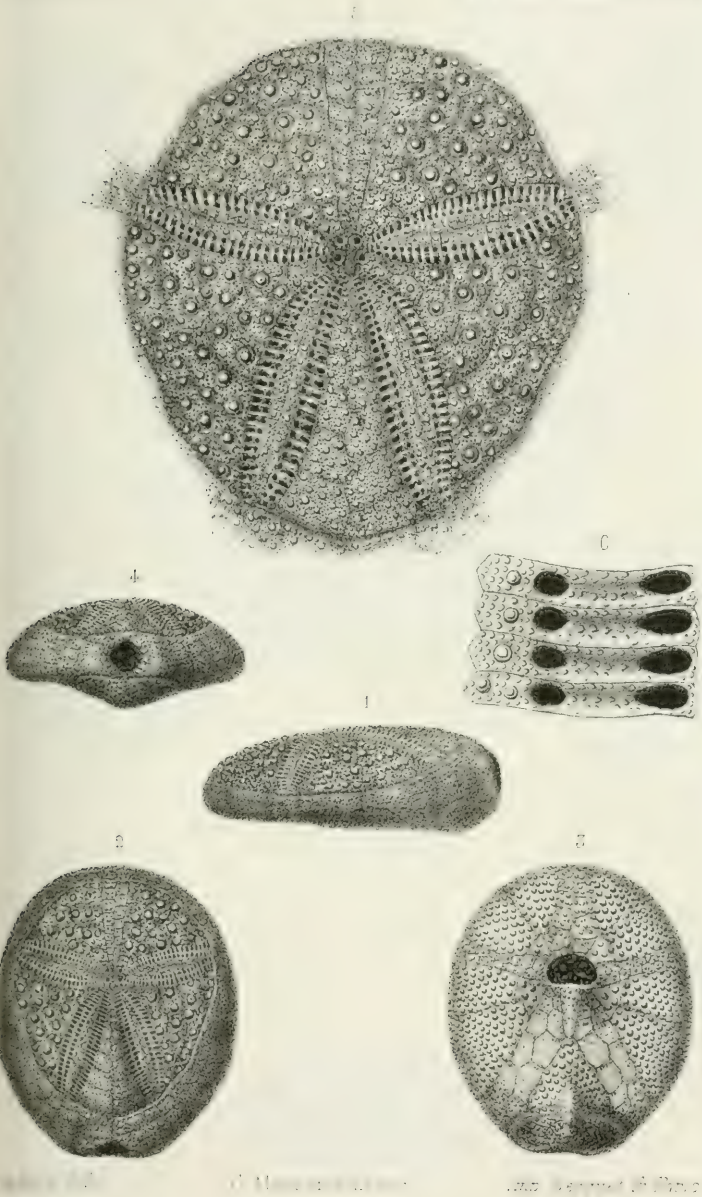
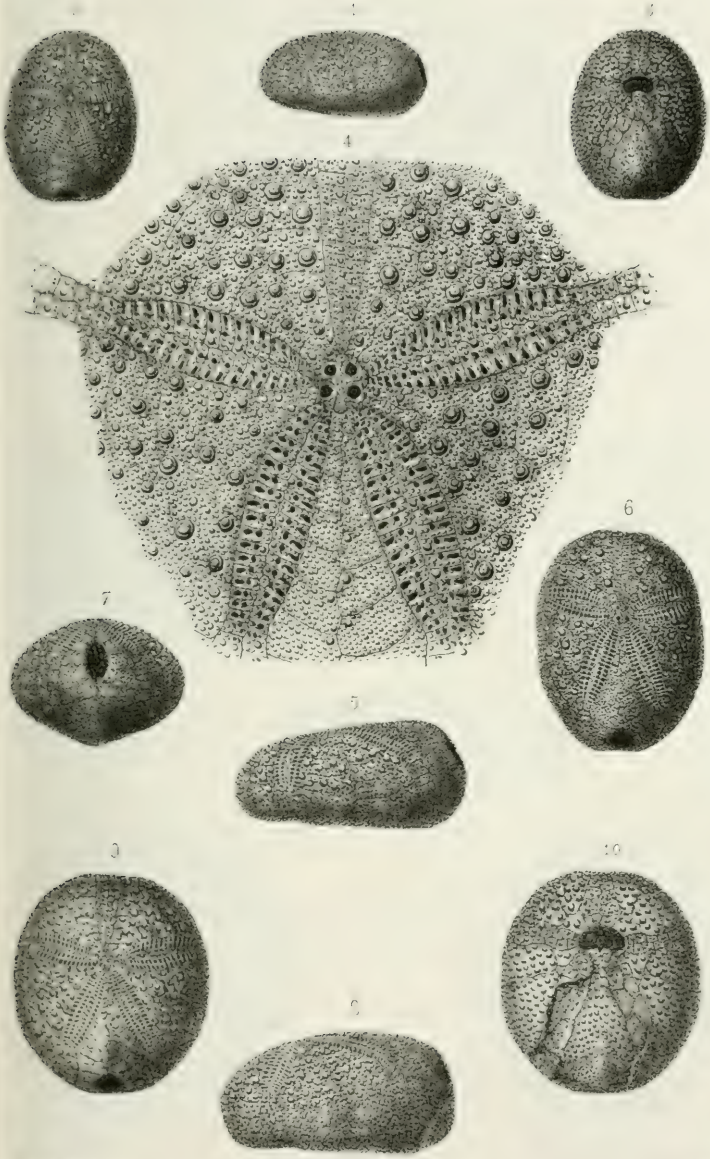
Euspatangus ornatus (Defrance), Agassiz. Eocène sup.



Euspatangus Duvali. Desor Eocene moy.



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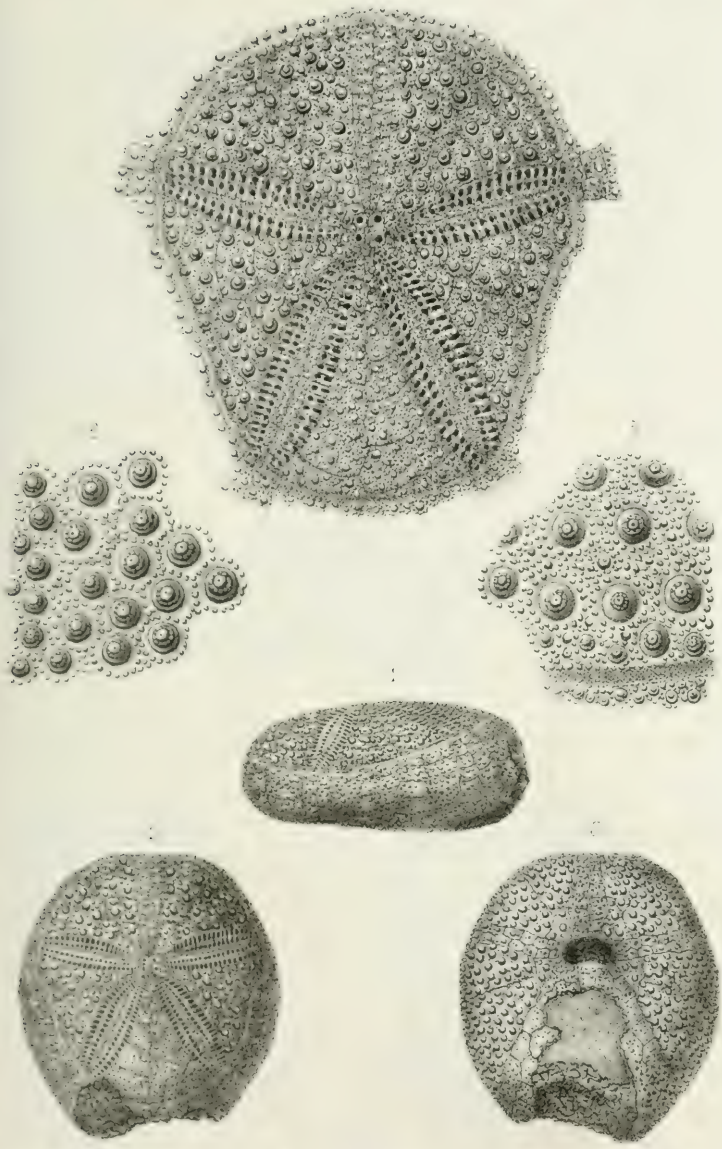
Euspatangus Croizieri, Cotteau. Eocène moy.



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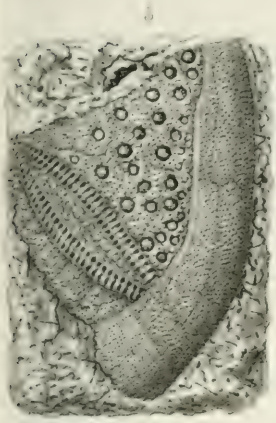
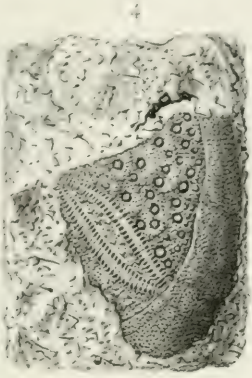
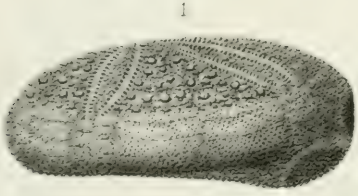
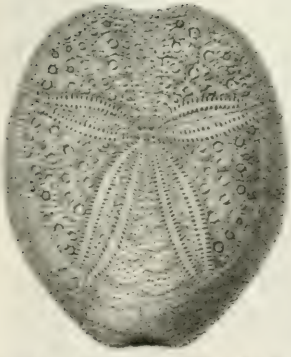
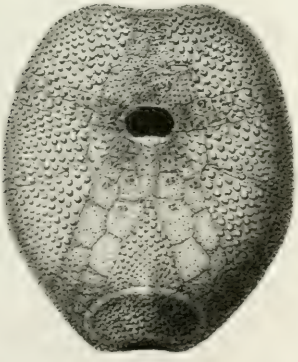
Euspatangus Degrangei, Cotteau. Eocène moy.











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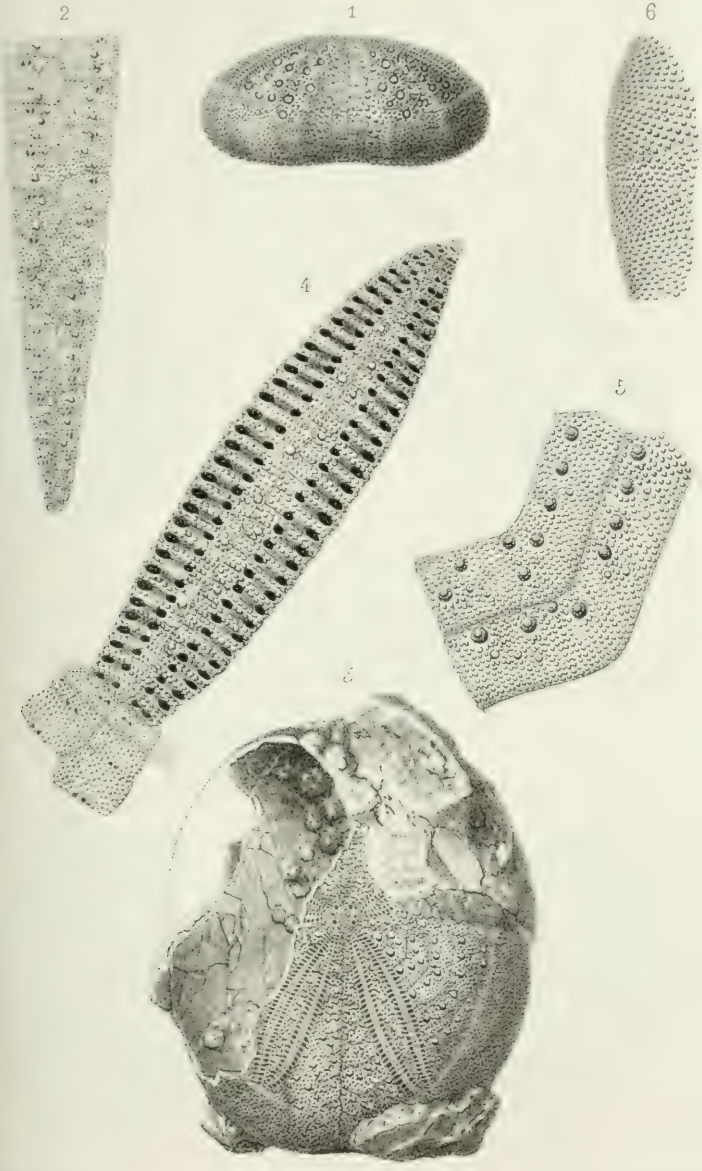
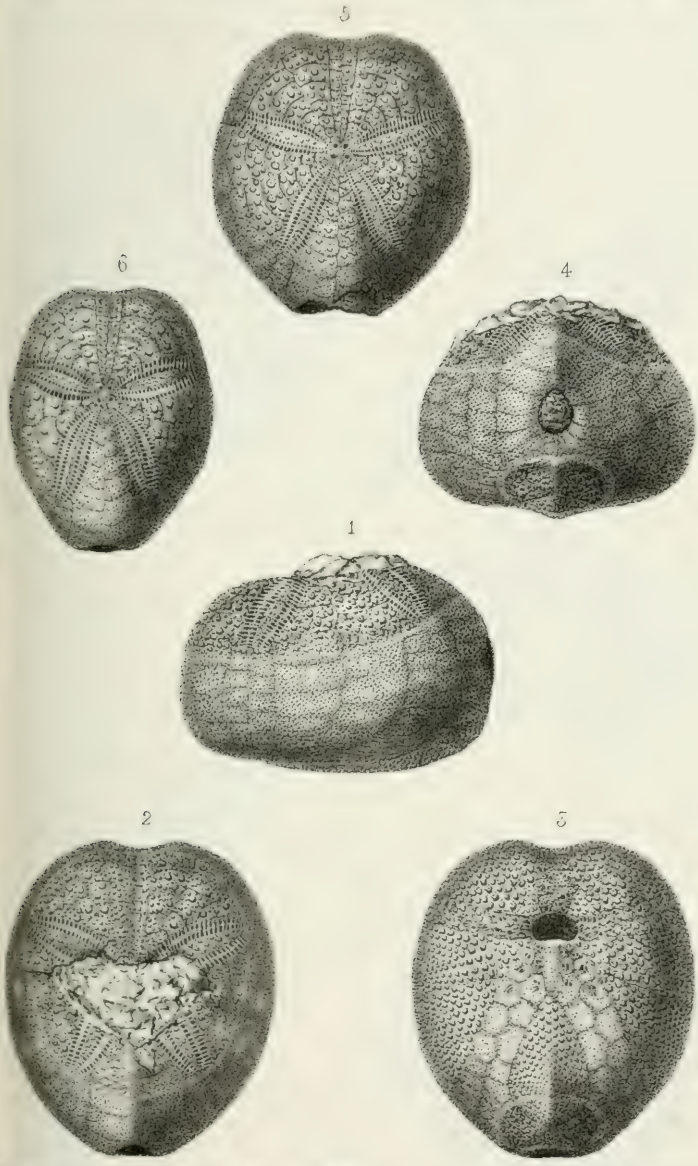
Euspatangus Vasseuri, Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

1 et 2. Euspatangus Vasseuri, Cotteau. Eocène moyen.
3 — 6. E. _____ subovatus (Sorignet), Cotteau. — —



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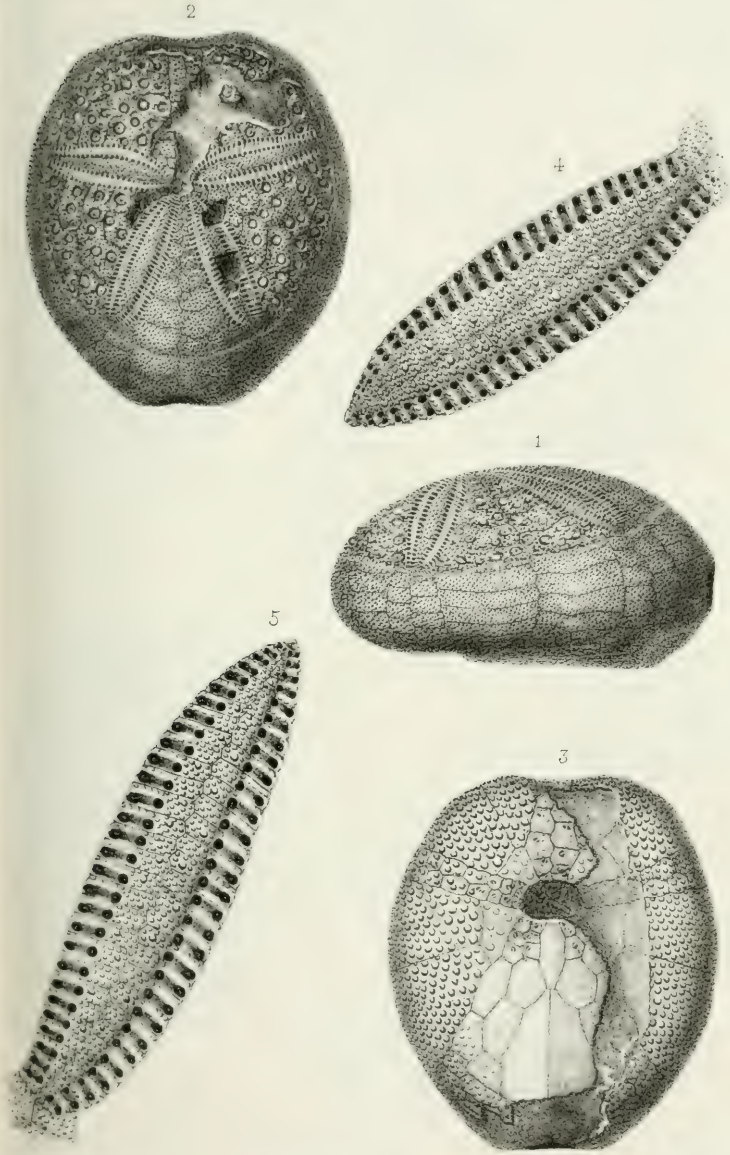
Euspatangus Prevosti (Desor), Cotteau. Eocène moyen.



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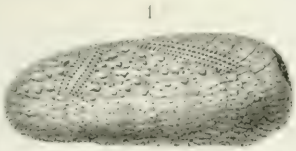
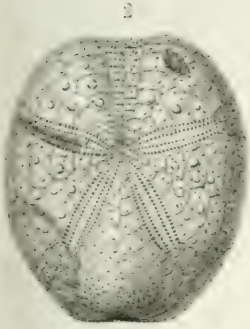
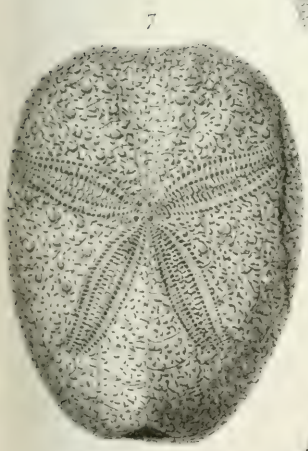
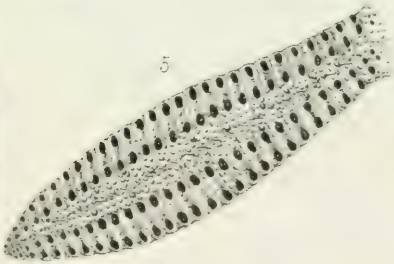
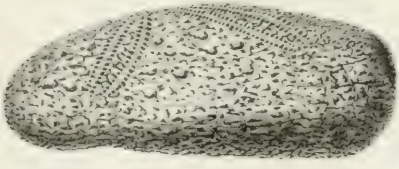
Euspatangus gibretensis, Cotteau. Eocène moyen.











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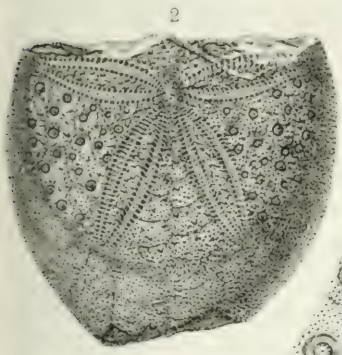
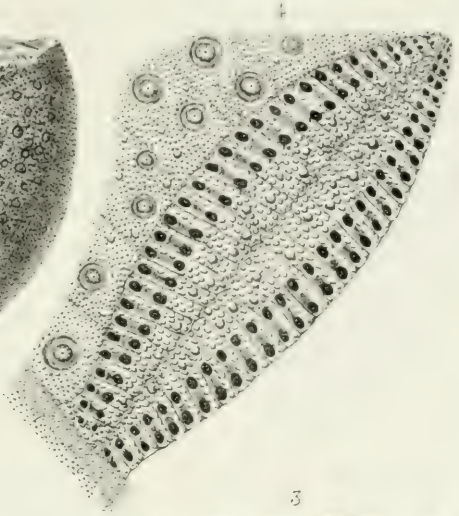
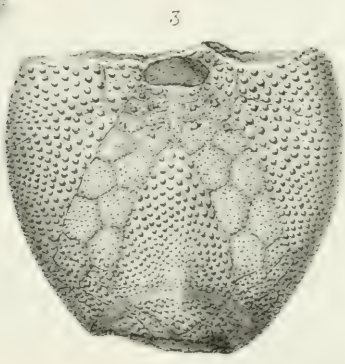
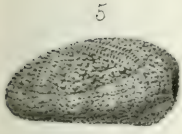
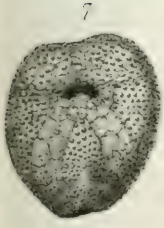
1 — 3. Euspatangus Jacquoti, Cotteau. Eocène moyen.
6 et 7. E. _____ elongatus, Agassiz. _____

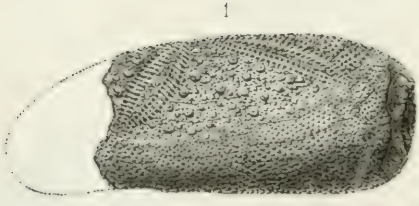












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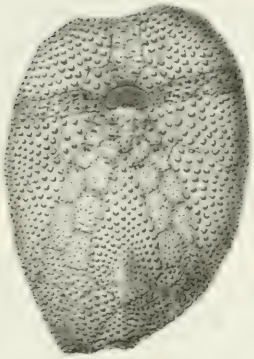
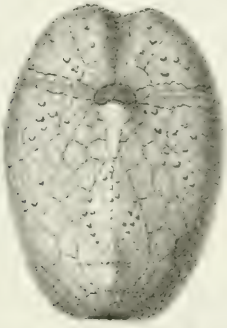
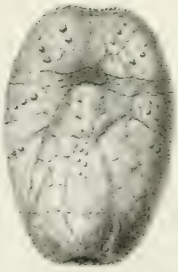
1 . 4. *Euspatangus elongatus, Agassiz. Eocène moyen.*
3 . 7. *E.* _____ *minimus, Sismonda.* ___ ___







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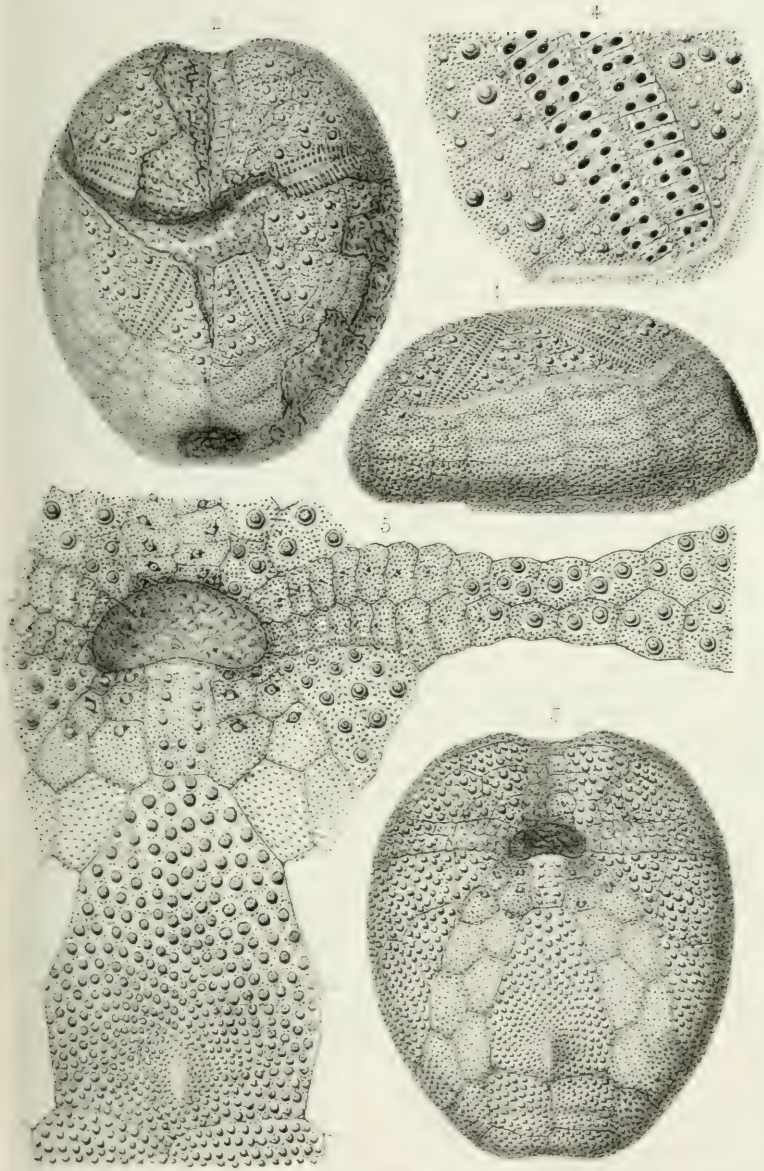
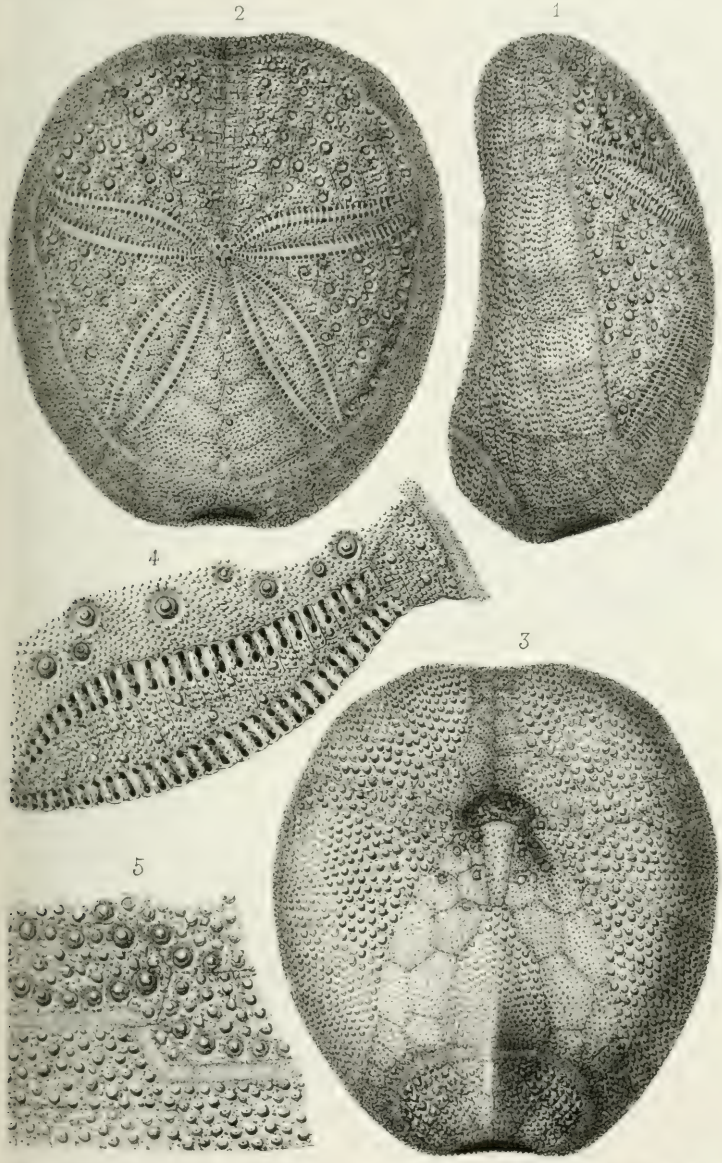
Euspatangus naviculla, Agassiz. Eocène moyen.



Hypsospatangus Bouillei, Cotteau. Eocène supérieur.



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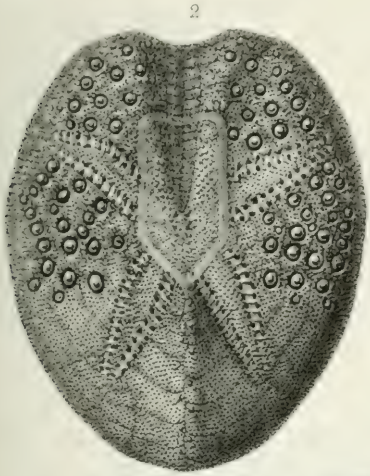
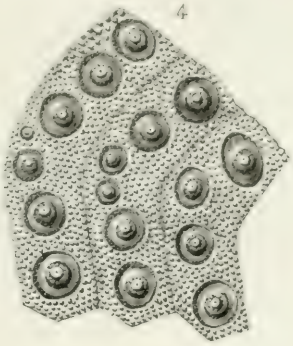
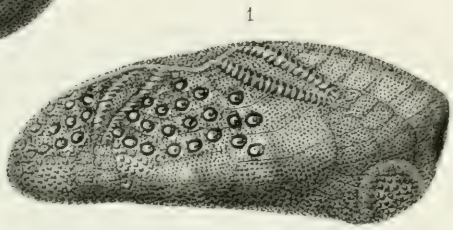
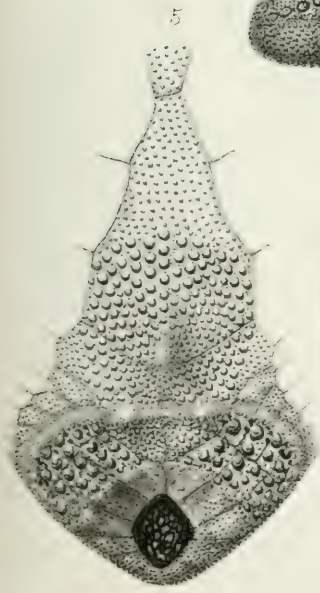
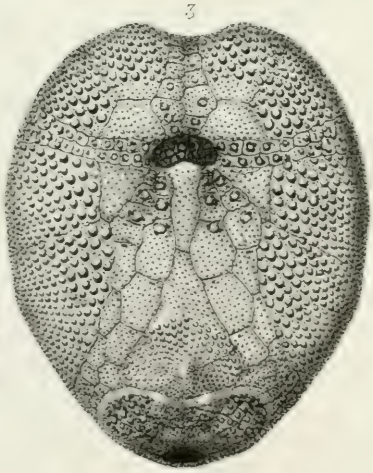
Euspatangus biarritzensis, Cotteau. *Eocène supérieur.*











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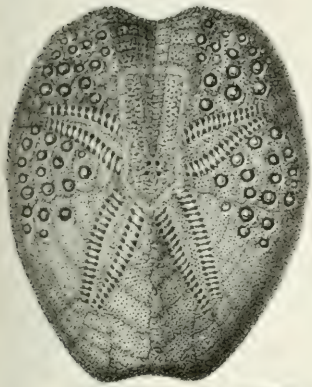
Sarsella sulcata (Haime), Pomel. Eocène supérieur.

1



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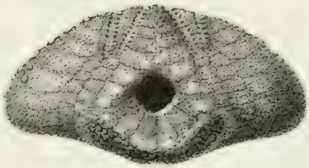

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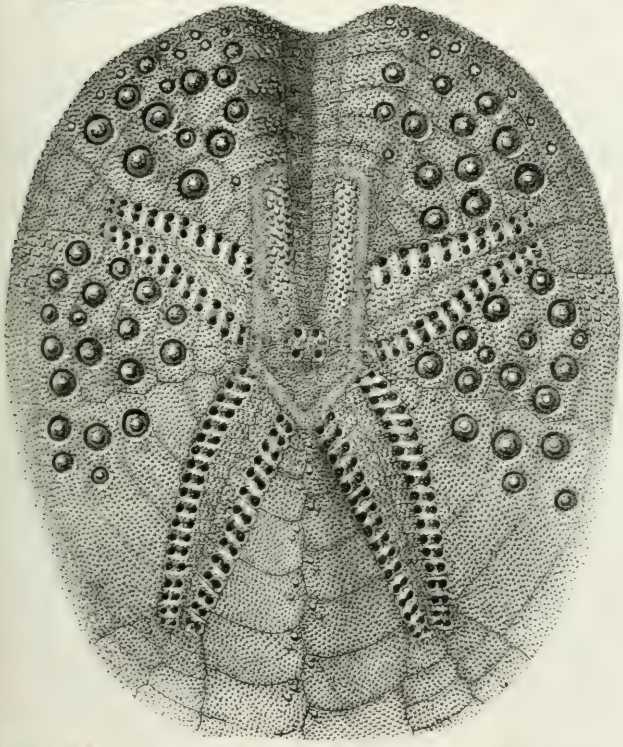
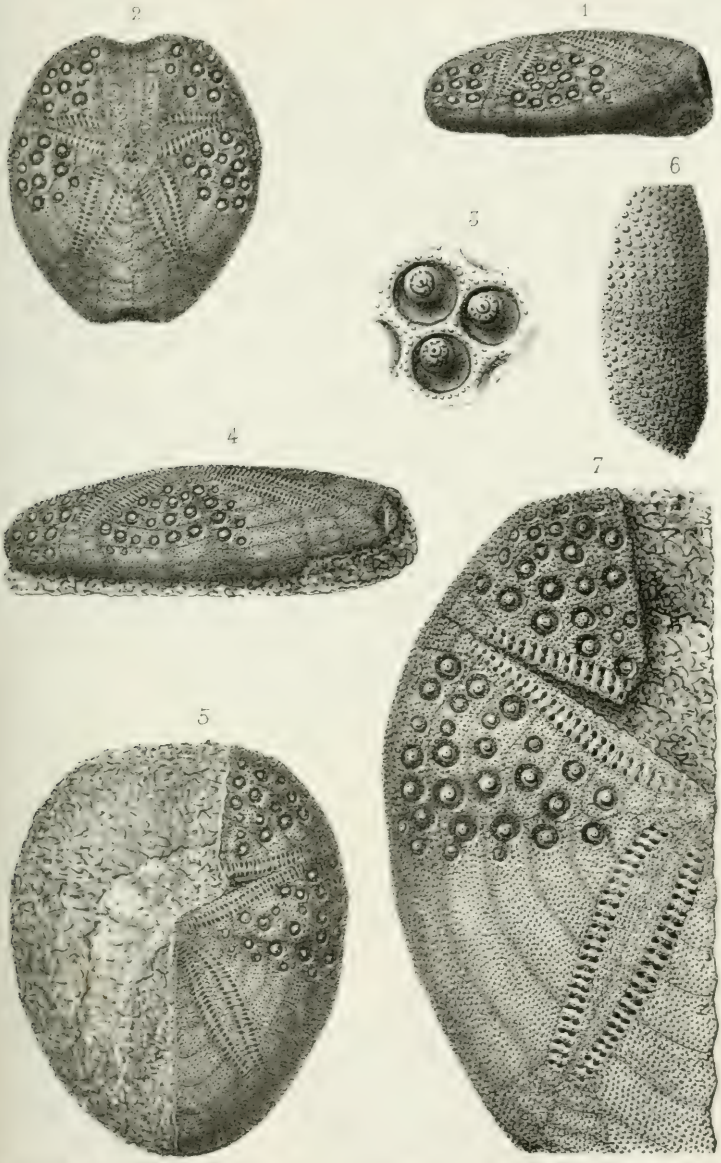


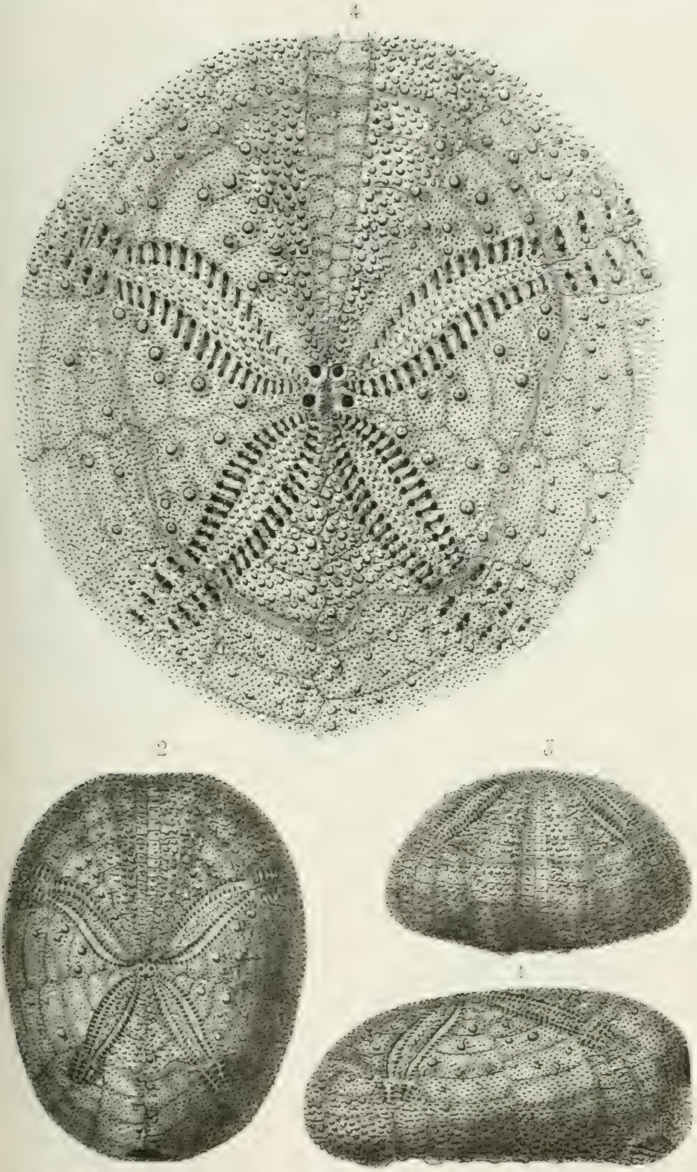
Humbert lith. G. Masson Editeur Imp. Becquet fr. Paris

Sarsella sulcata (Haime), Pomel. Eocène supérieur.



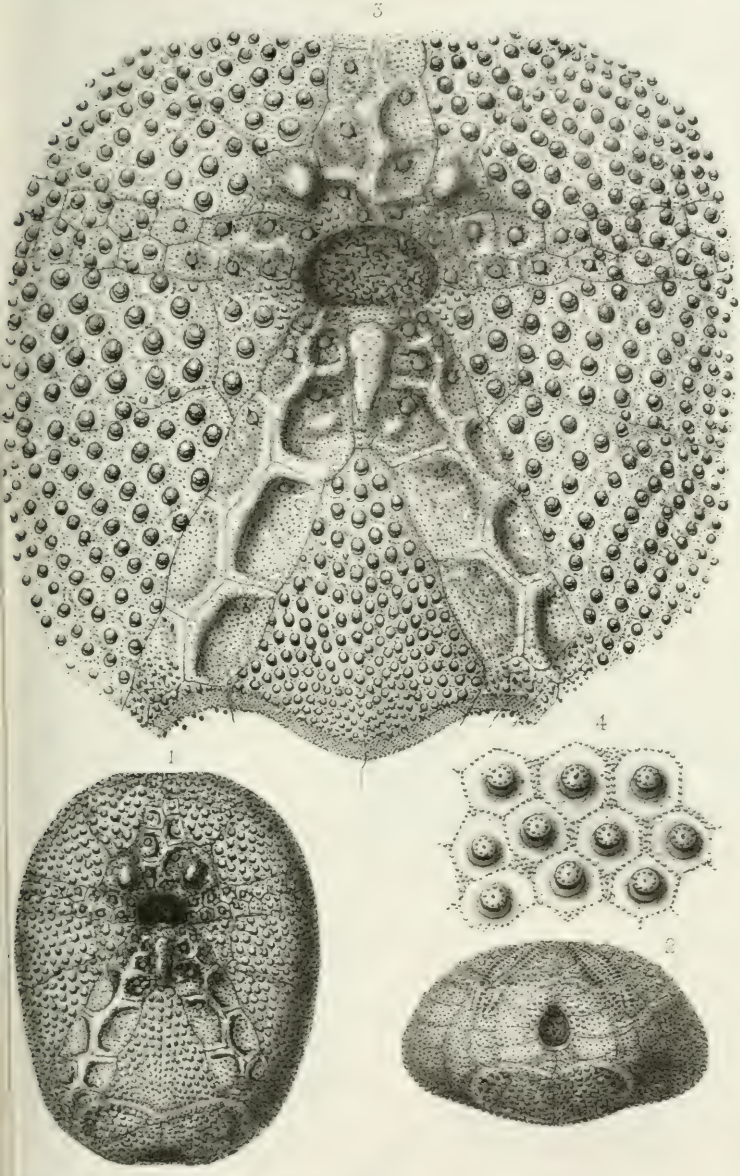
Humbert lith. G. Masson, Editeur Imp. Becquet fr. Paris.

1–3. *Sarsella sulcata* (*Haime*), *Pomel. Eocène supérieur.*
4–7. *S.* ____ *Sorigneti*, *Cotteau. Eocène moyen.*



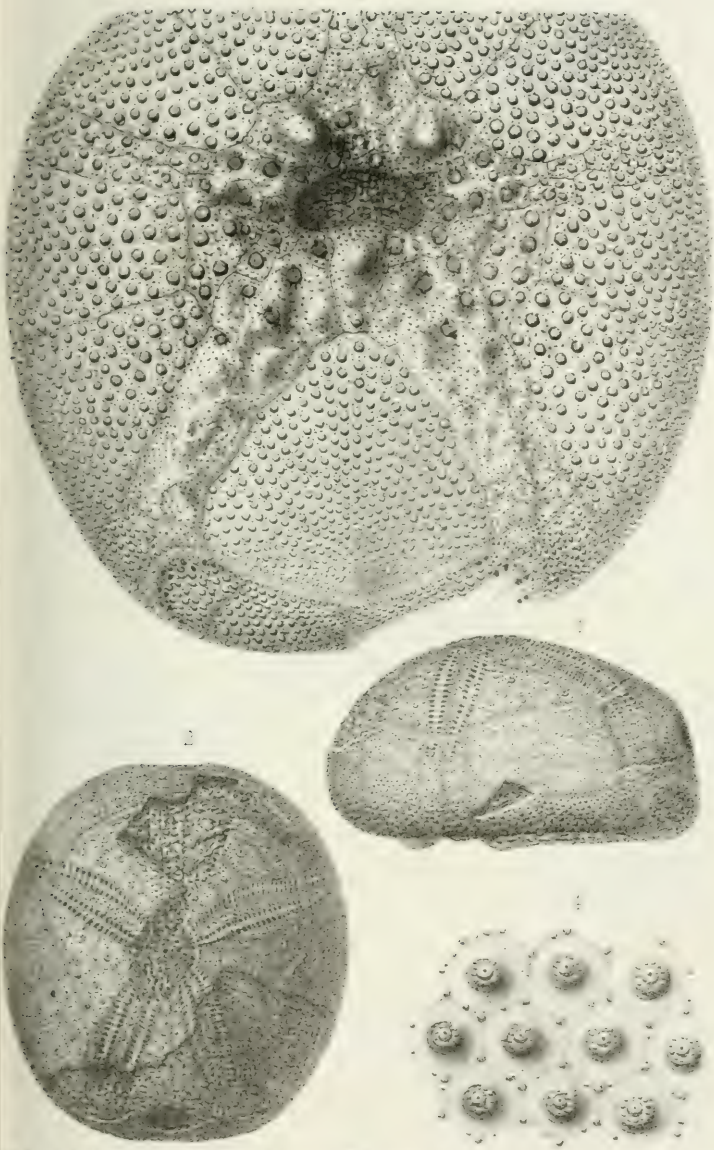
Lambert lith. Imp. Becquet fr. Paris.

Gualtieria Orbignyi, Agassiz Eocène moyen.



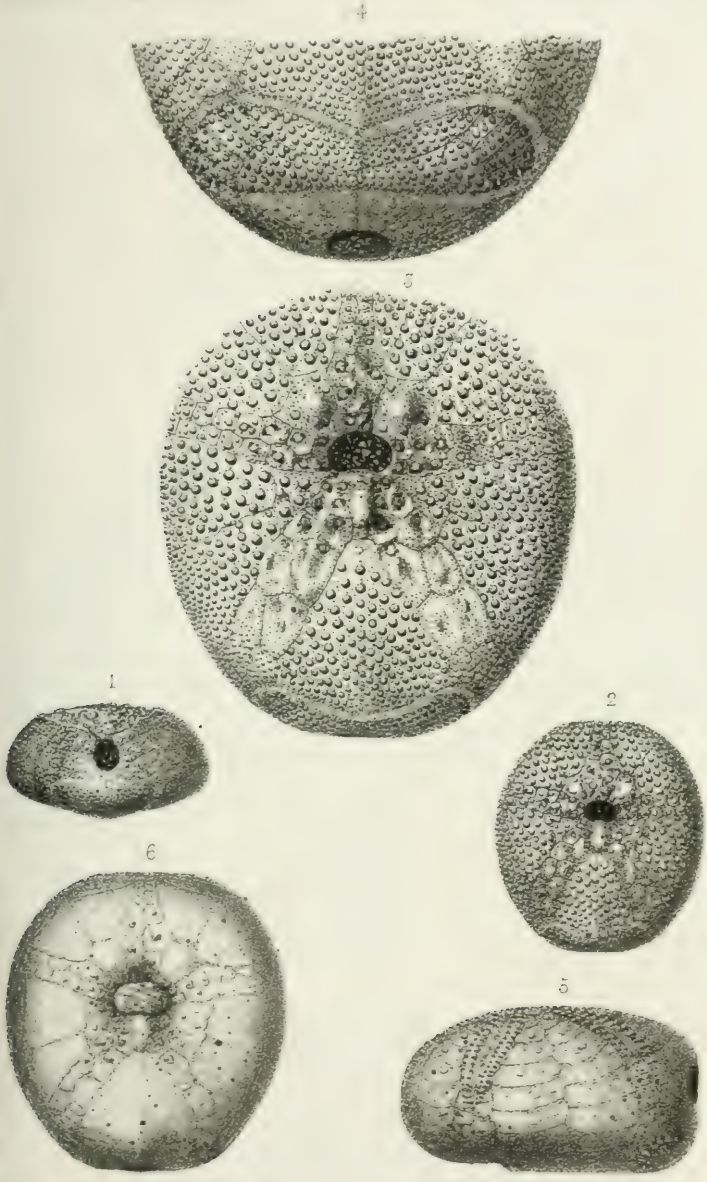
Thibert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Gualtieria Orbignyi, Agassiz. Eocène moyen.



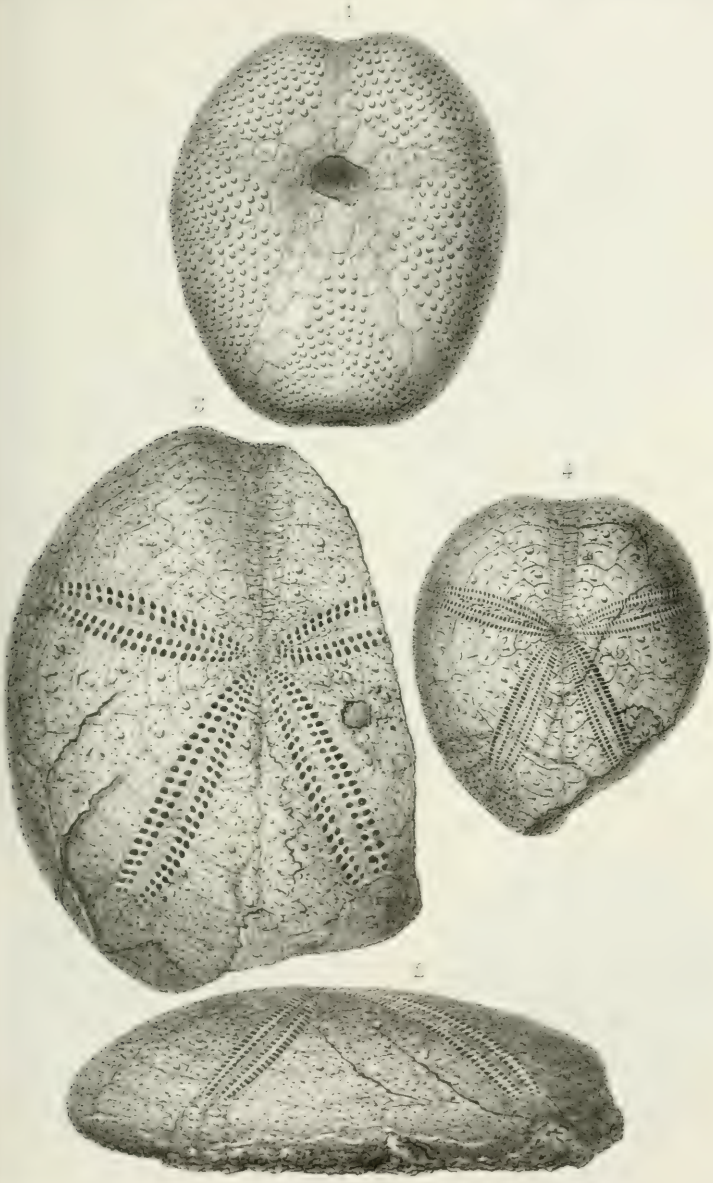
...ère lith. G. Masson Éditeur. Imp. Becquet fr. Paris

Gualtieria Heberti, Vasseur Eocène moyen.



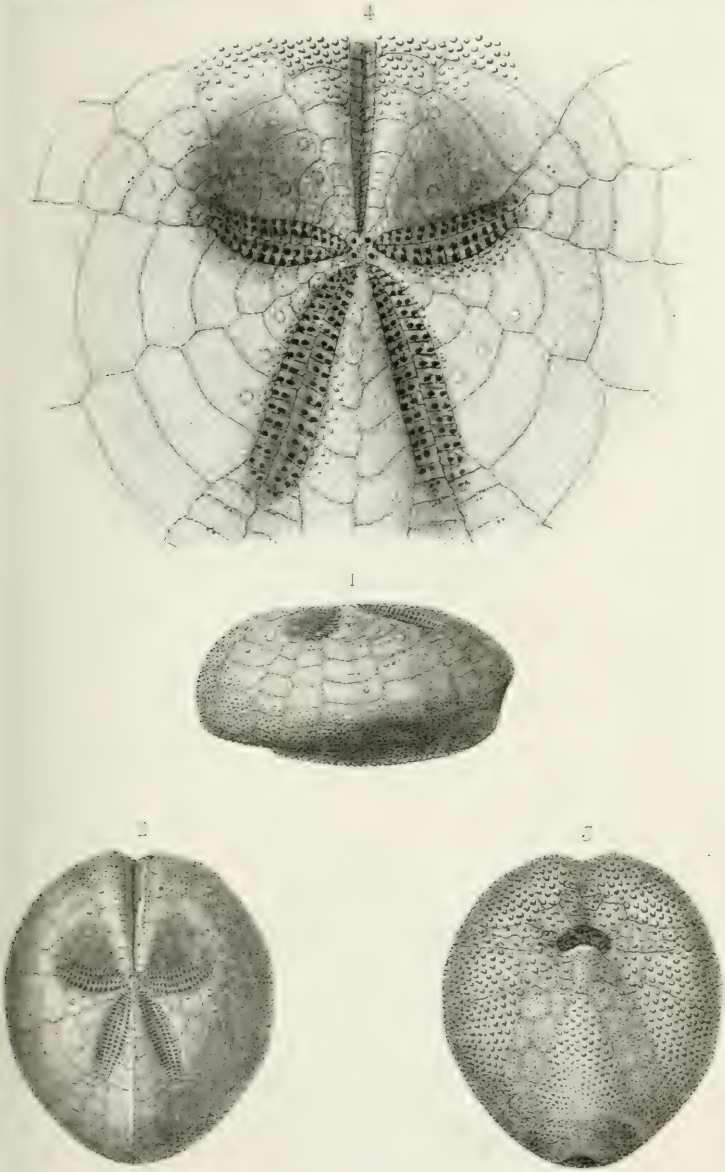
mbert lith G. Masson Editeur Imp Becquet fr Paris

Gualtieria Heberti, Vasseur. Eocène moyen.



Humbert lith. G.Masson, Editeur. Imp. Becquet fr. Paris

1 *Echinocardium subcentrale*, d'Archiac. Eocène moyen.
2 4. *Leiopneustes antiquus*, Agassiz, Cotteau. ___ _____



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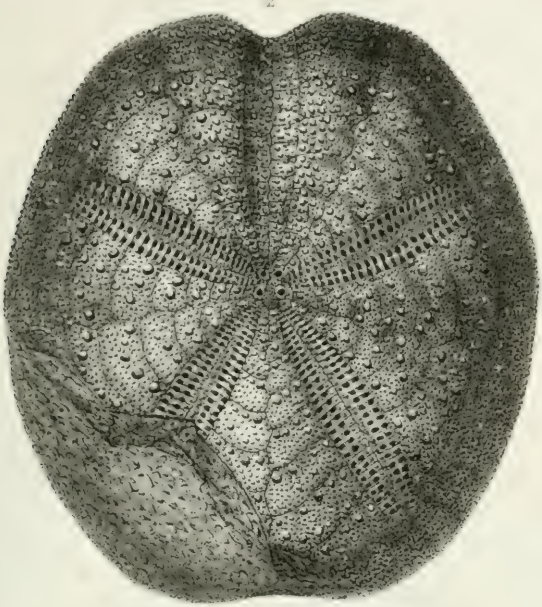
Brissospatangus Caumonti, Cotteau. Eocène supérieur.

2



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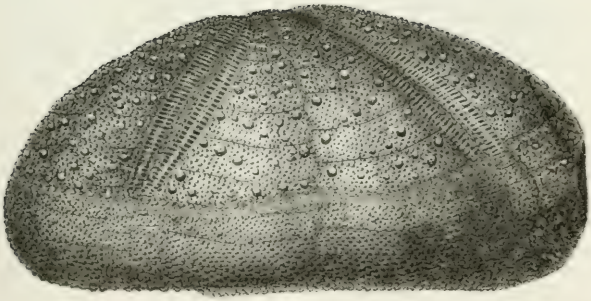
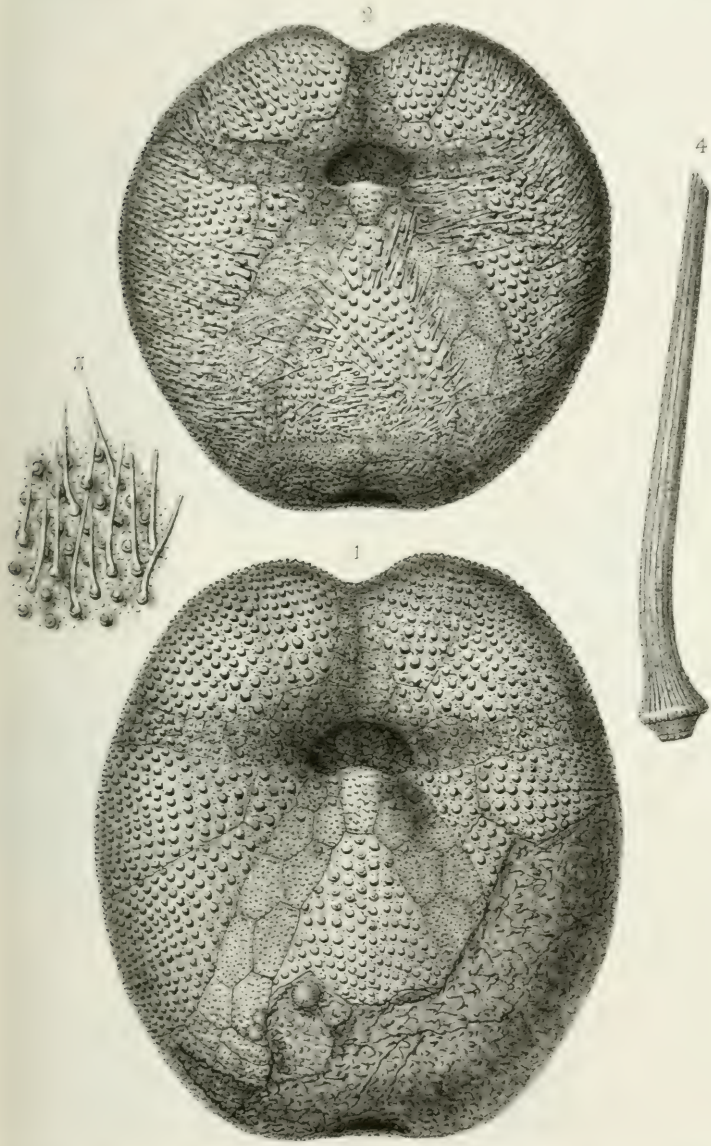


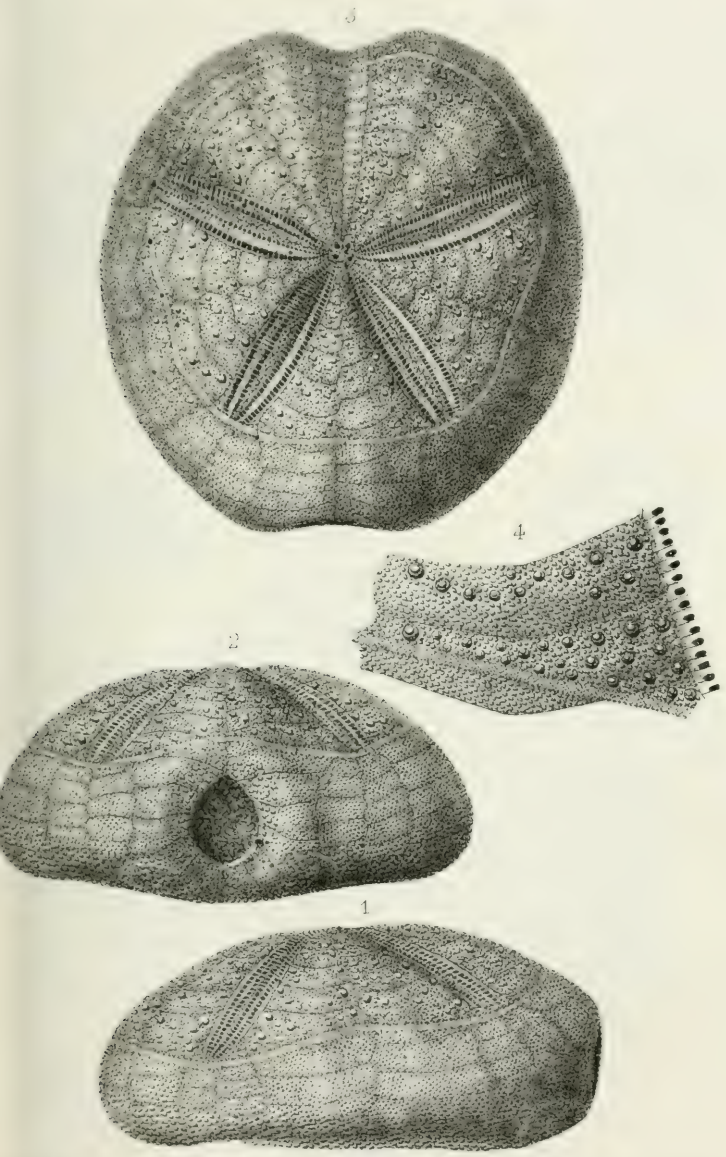
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris*

Macropneustes Deshayesi, Agassiz. Eocène moyen



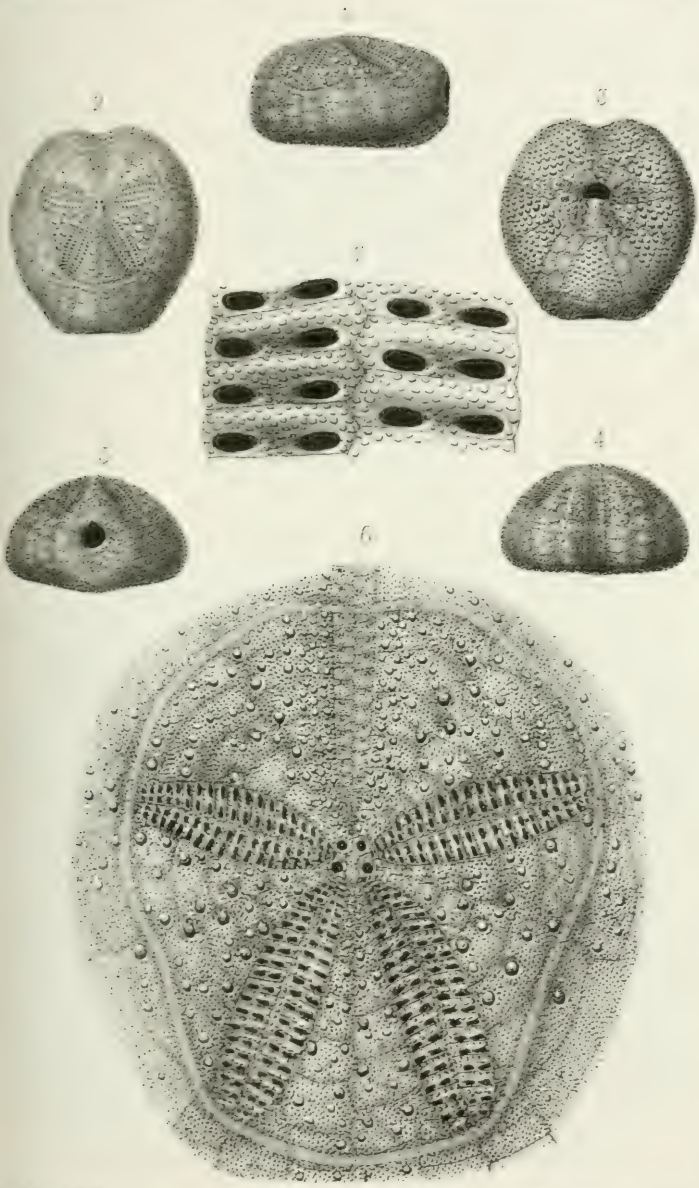
Humbert lith. G. Masson Editeur. *Imp. Becquet fr. Paris*

Macropneustes Deshayesi, Agassiz. Eocène moyen.



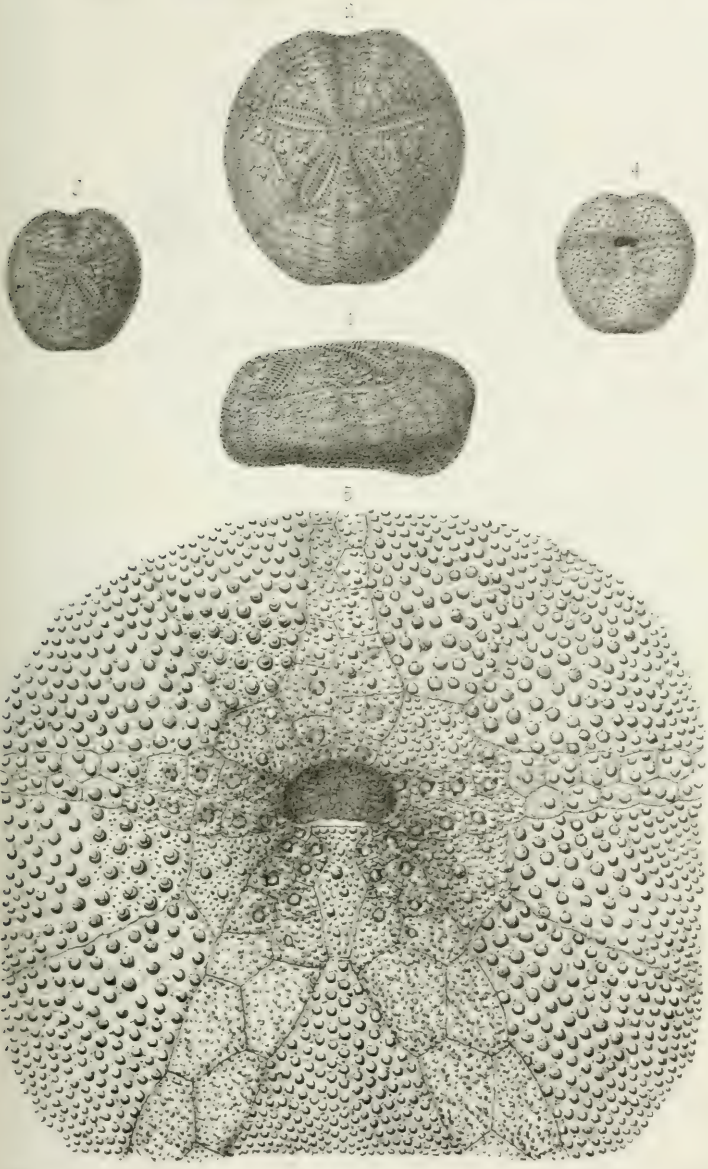
Humbert lith. G. Masson. Editeur. Imp. Becquet fr. Paris

Macropneustes Deshayesi, Agassiz. Eocène moyen.



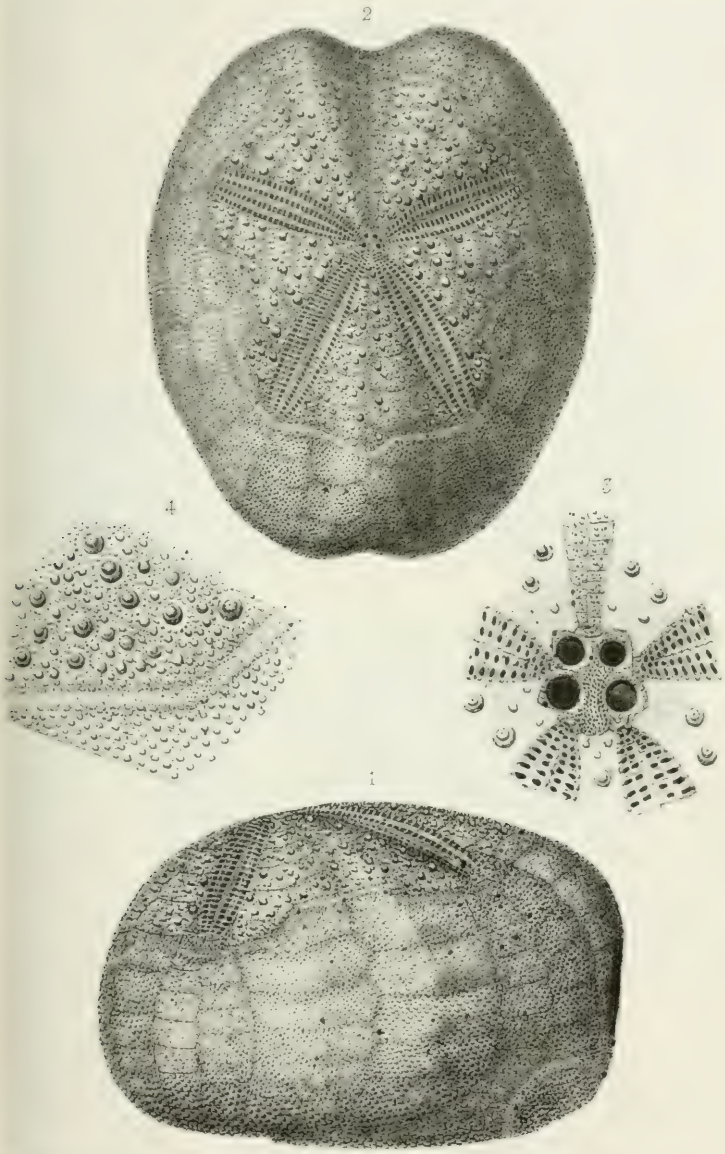
Imp. Becquet fr. Paris

Macropneustes minor (Agassiz), Desor. Eocène moyen.



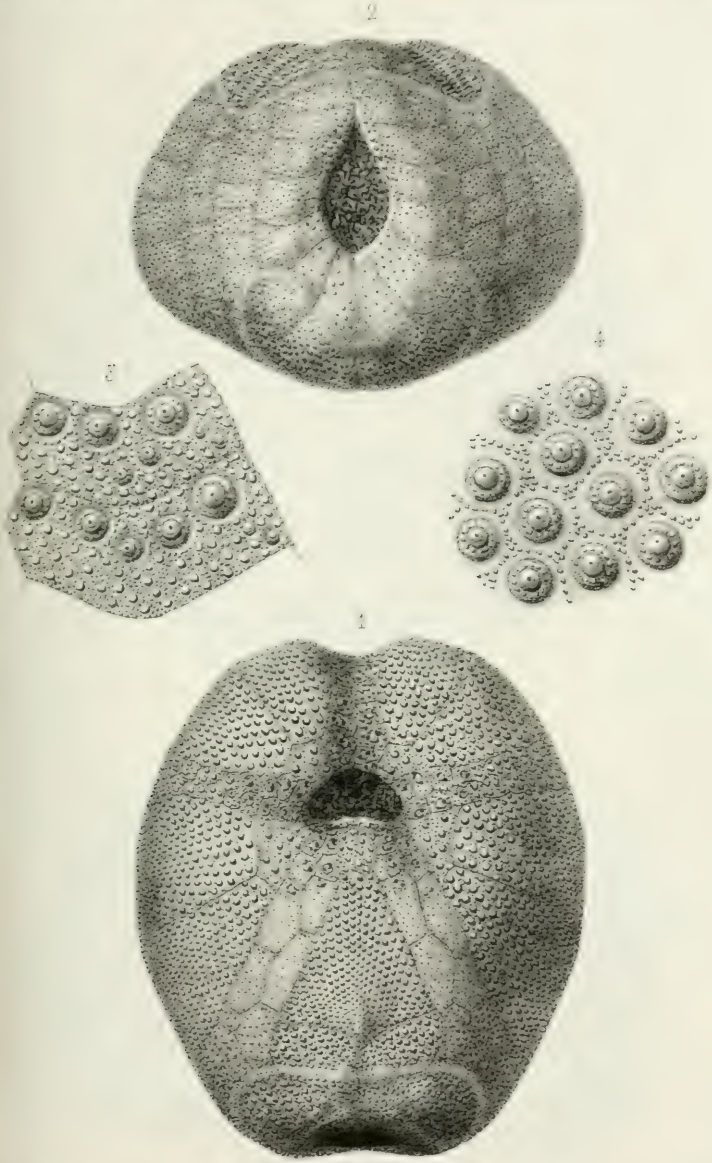
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Macropneustes minor (*Agassiz*). *Descr. Eocène moyen.*



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

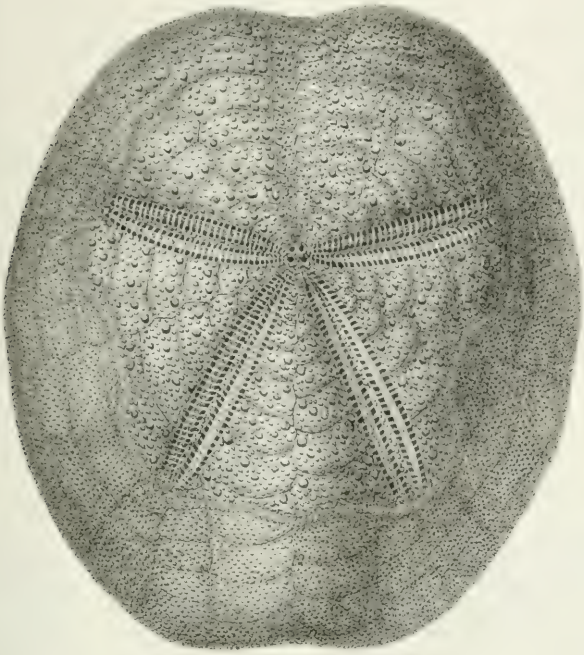
Macropneustes brissoides (Lesk.) Desor. Eocène moyen.



Lambert lith. G. Masson, Editeur. Imp. Becquet rue Pierre.

Macropneustes brissoides (Leske), Desor. Eocène moyen.

2



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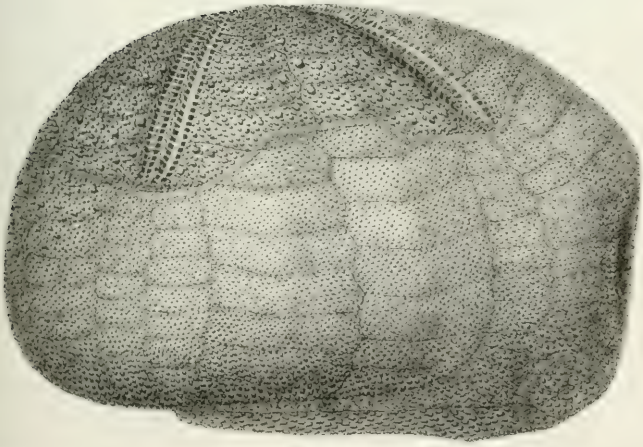
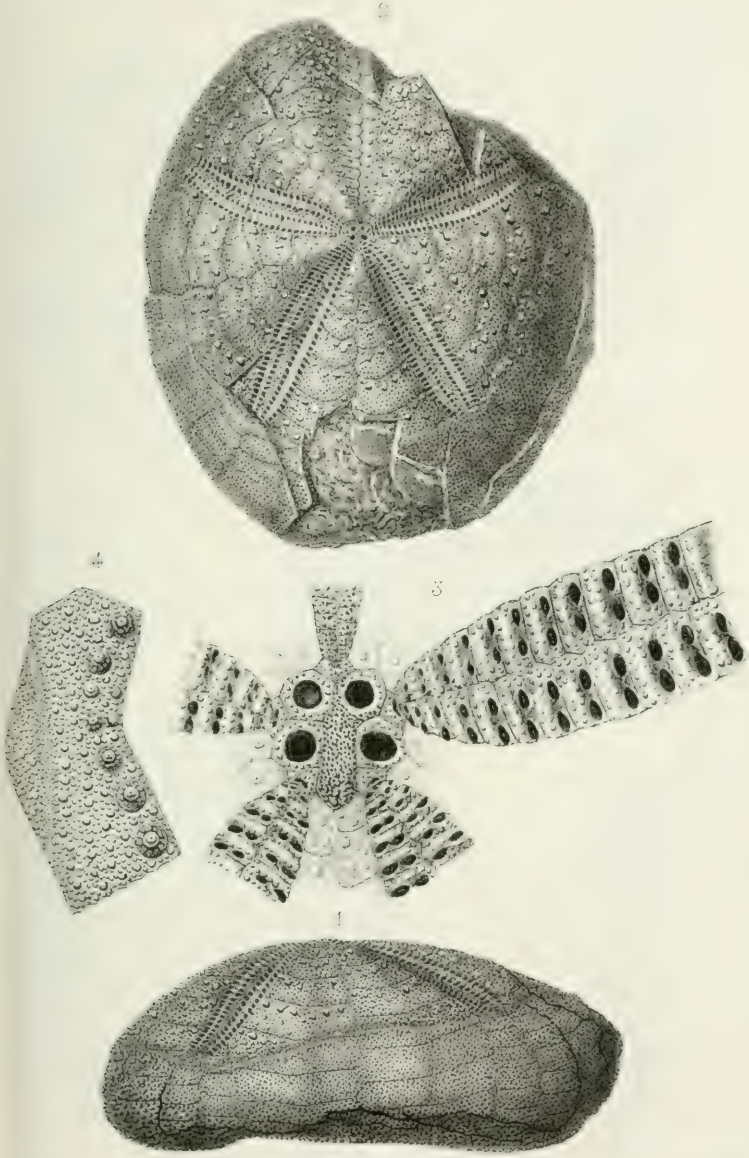


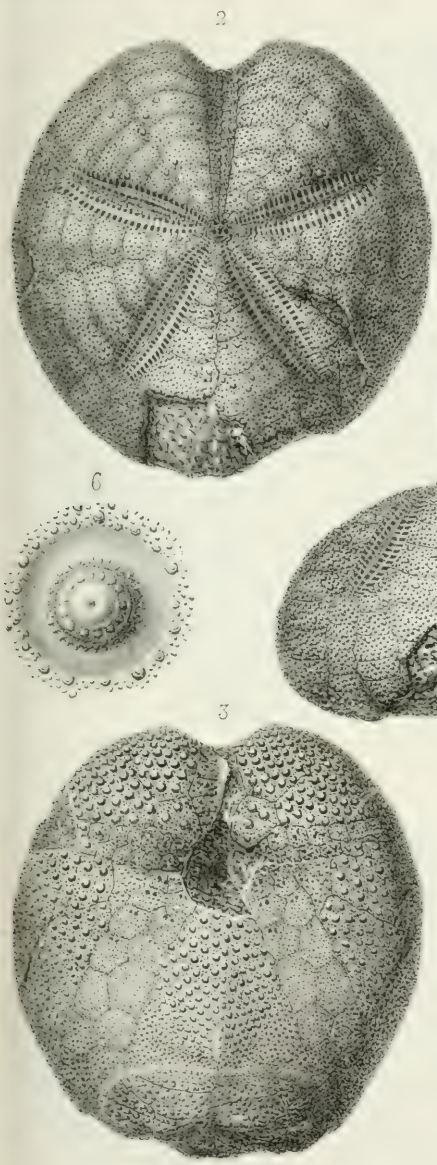
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Macropneustes brissoides (Leske), Descr. Eocène sup.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

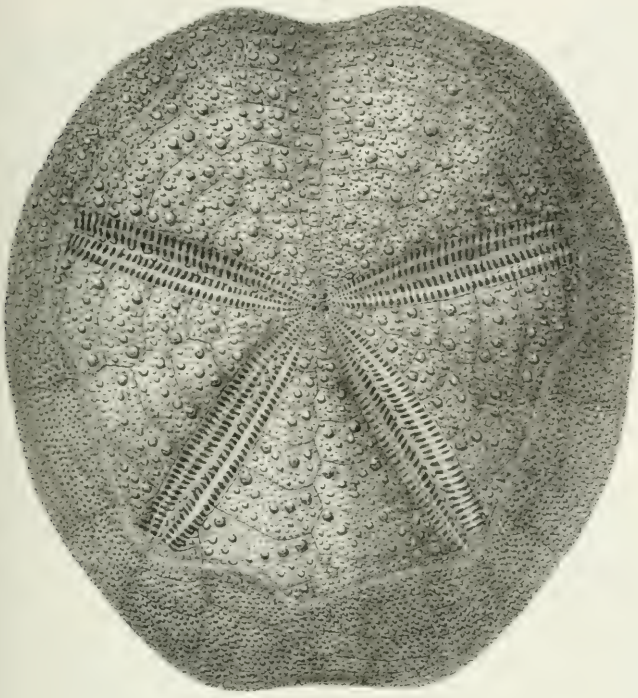
Macropneustes Heberti, Cotteau. *Eocène moyen.*



Lumbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Macropneustes tumidus, Cotteau. Eocène moyen.

2



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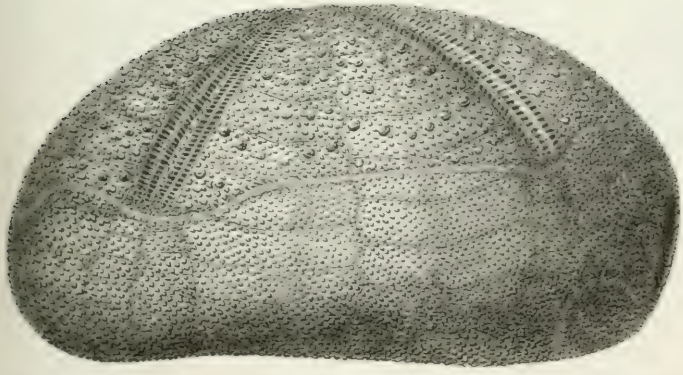

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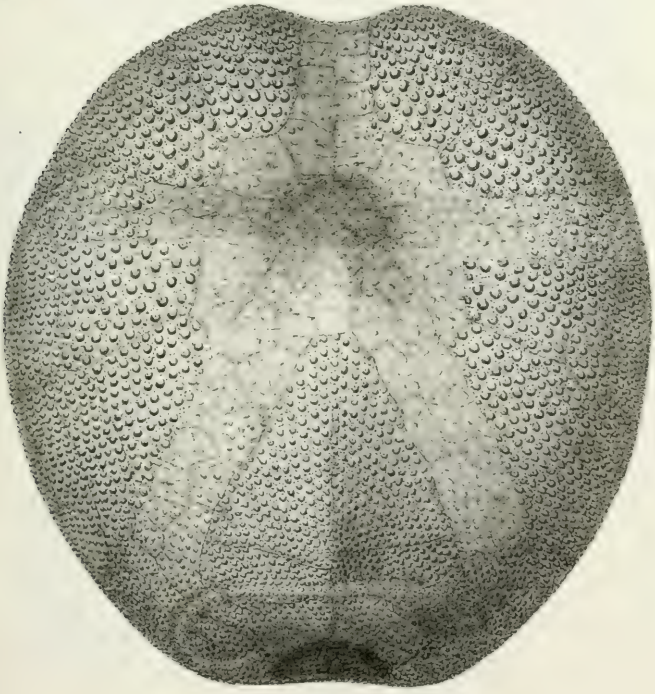
Macropneustes pulvinatus (d'Archiac), Agassiz. Eocène sup.



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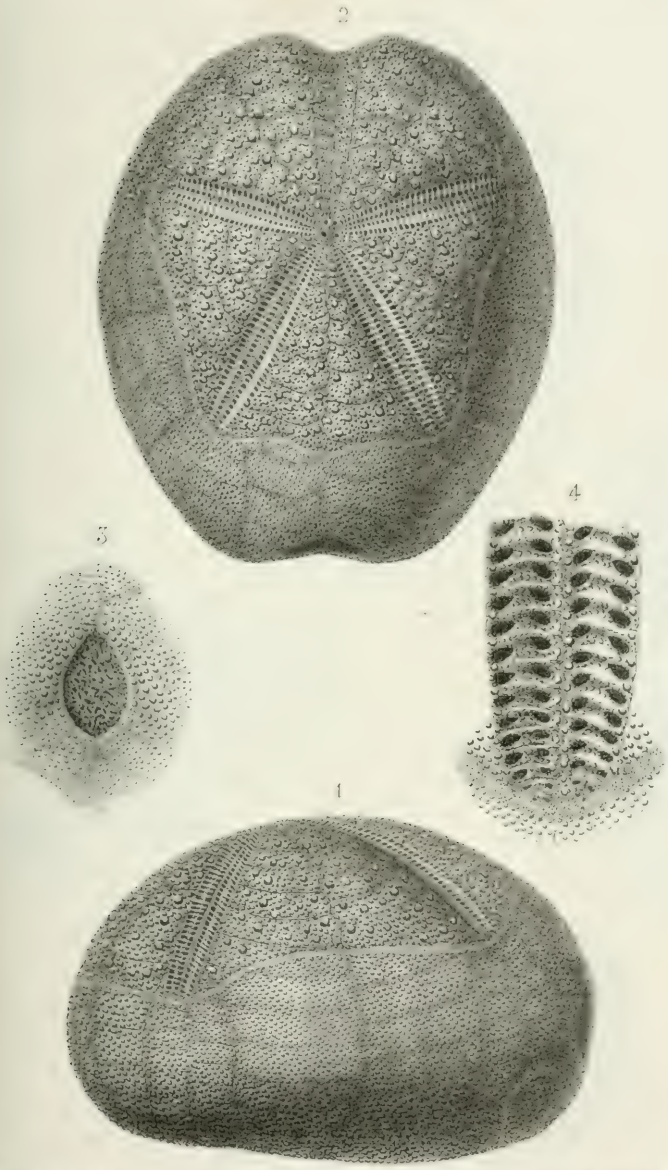
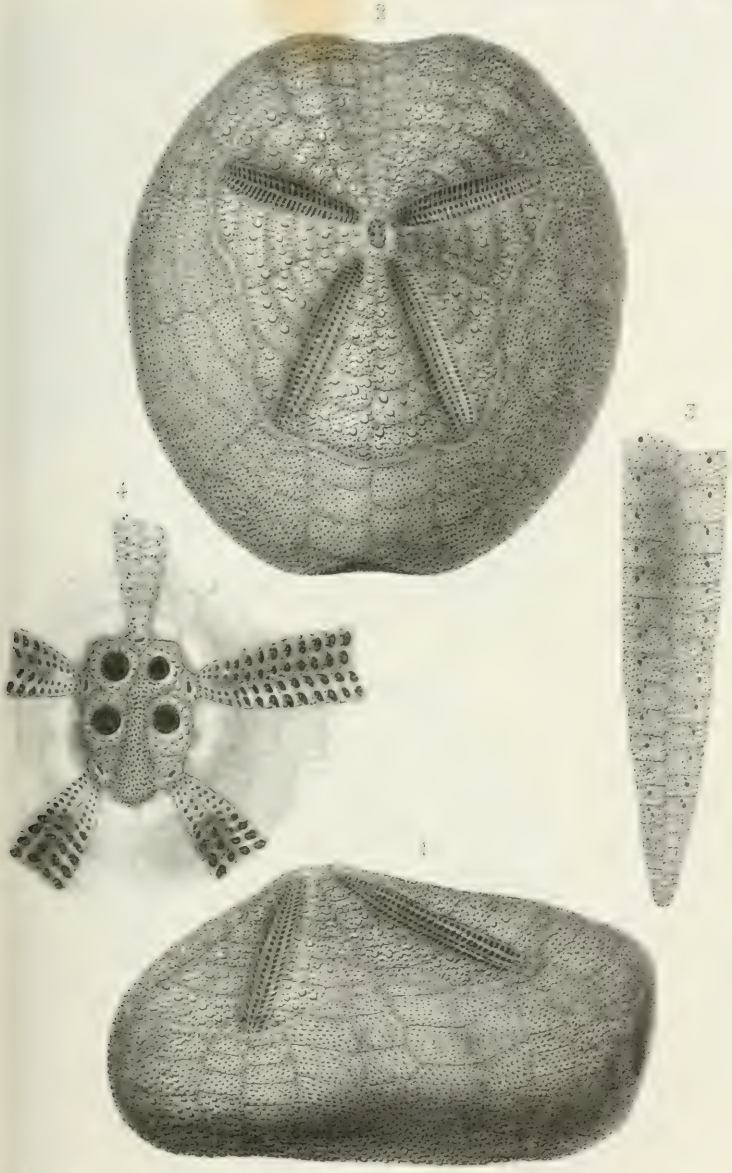
Macropneustes pulvinatus (d'Archiac). *Agassiz. Eocène sup.*



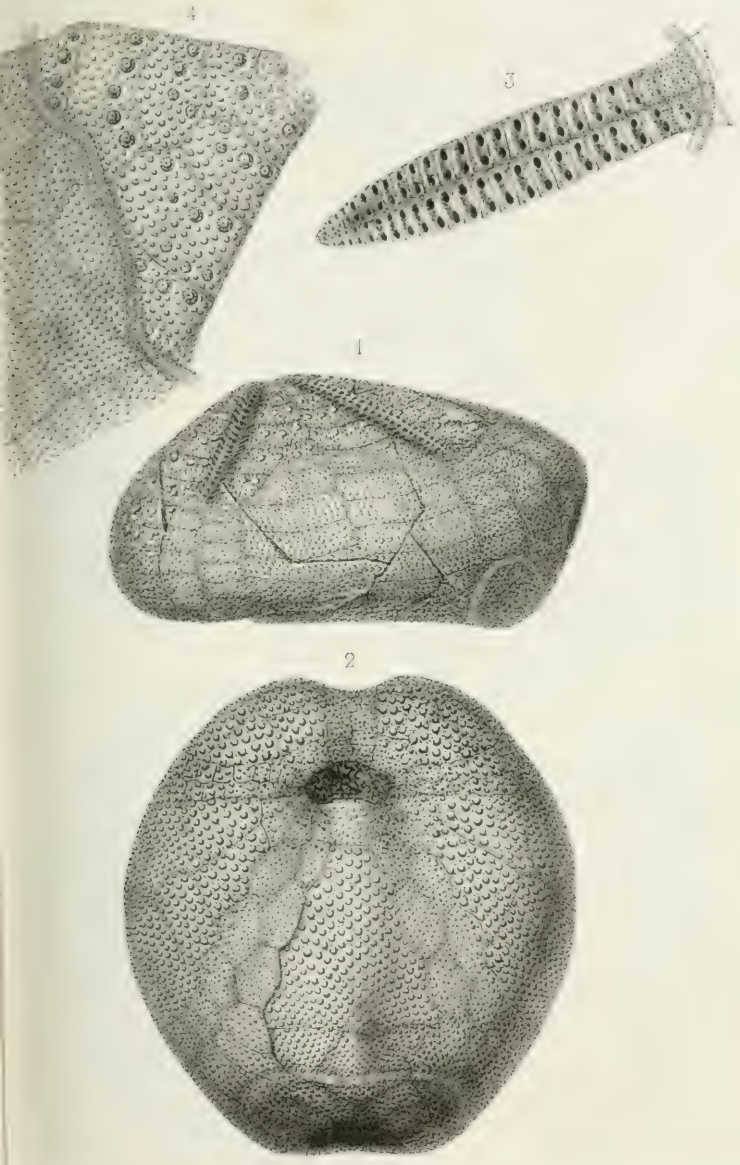
Lambert lith. G. Masson, Editeur. Imp. Lemercier & Cie Paris.

Macropneustes pulvinatus (d'Archiac), Agassiz. Eocène sup.



G. Masson, Editeur. Imp. Becquet fr. Paris.

Macropneustes Pellati, Cotteau. Eocène sup.



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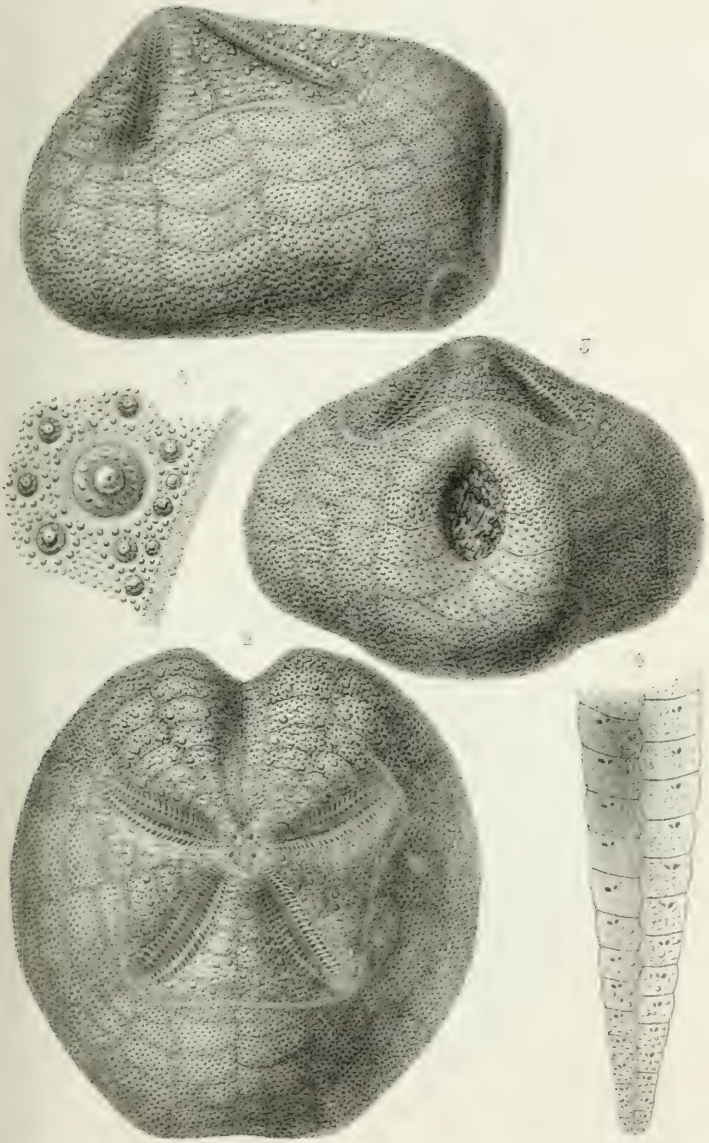
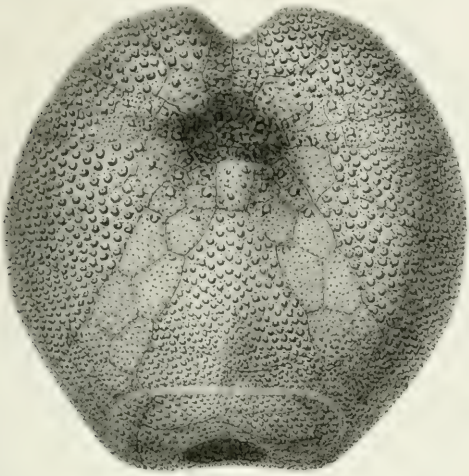
Macropneustes Pellati, Cotteau. Eocène sup.



Lambert lith. G. Masson Editeur Imp. Lemercier fr. Paris

Macropneustes Guillieri, Coteau Eocène sup.

1



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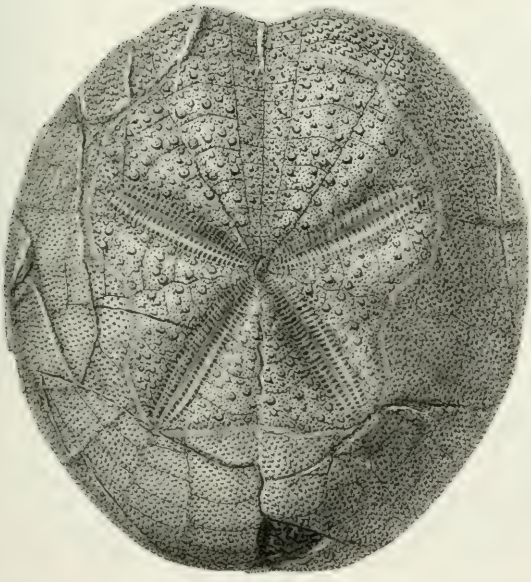
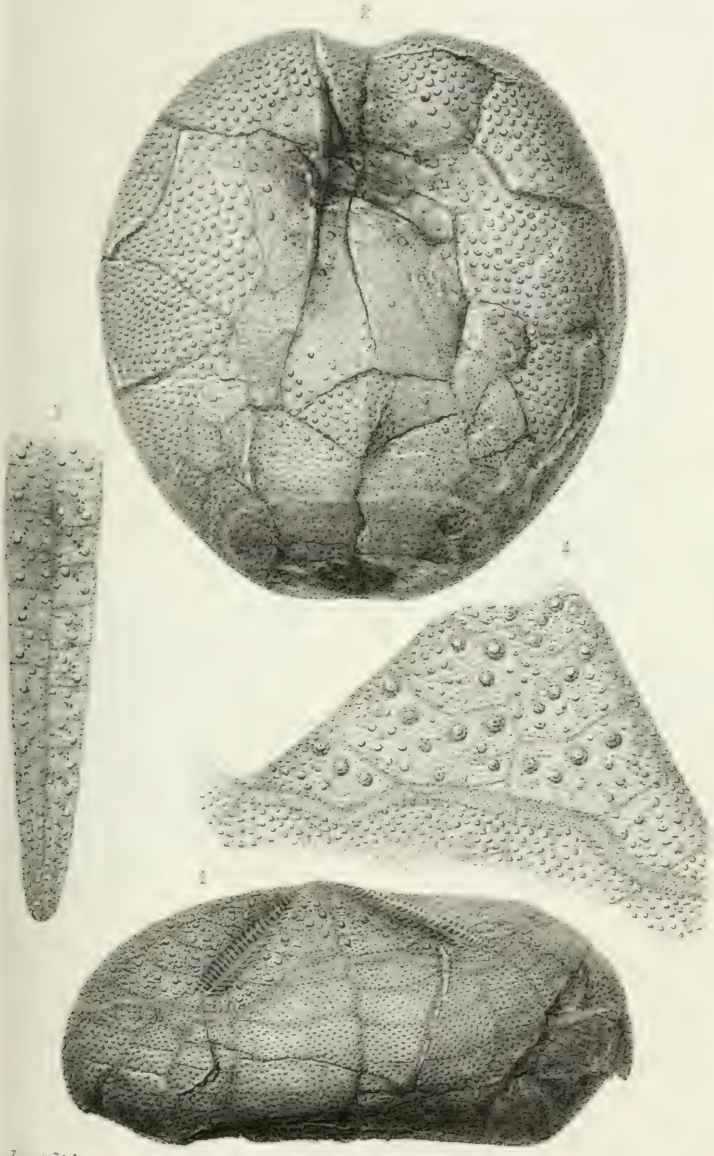


Lumbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

1. *Macropneustes Guillieri*, Cotteau. Eocène sup.
2. *M.* _____ *Bouillei*, _____ _____ _____



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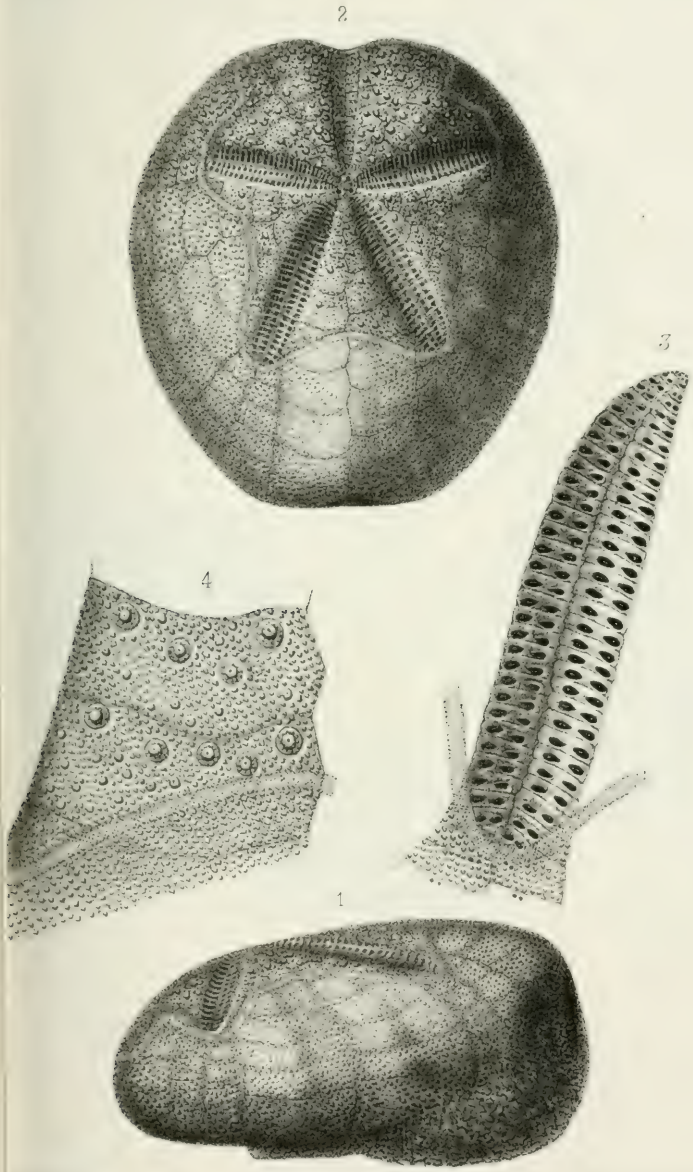
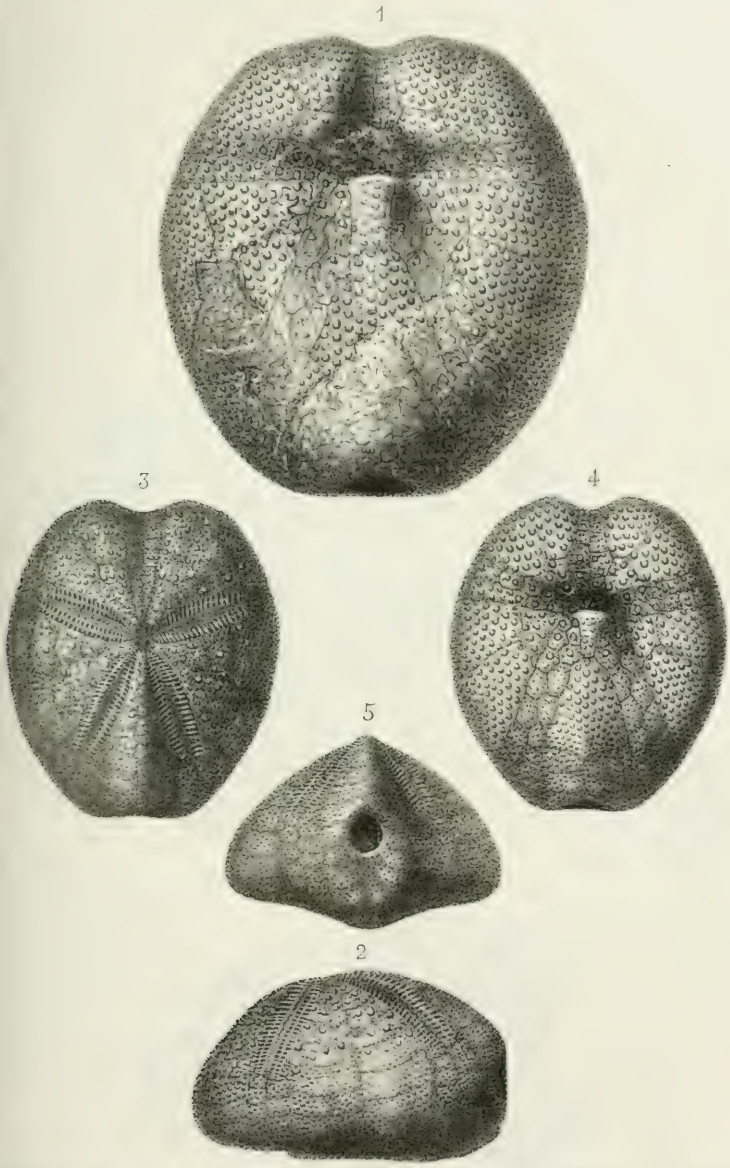
Macropneustes Bouillei, Cotteau. Eocène sup.



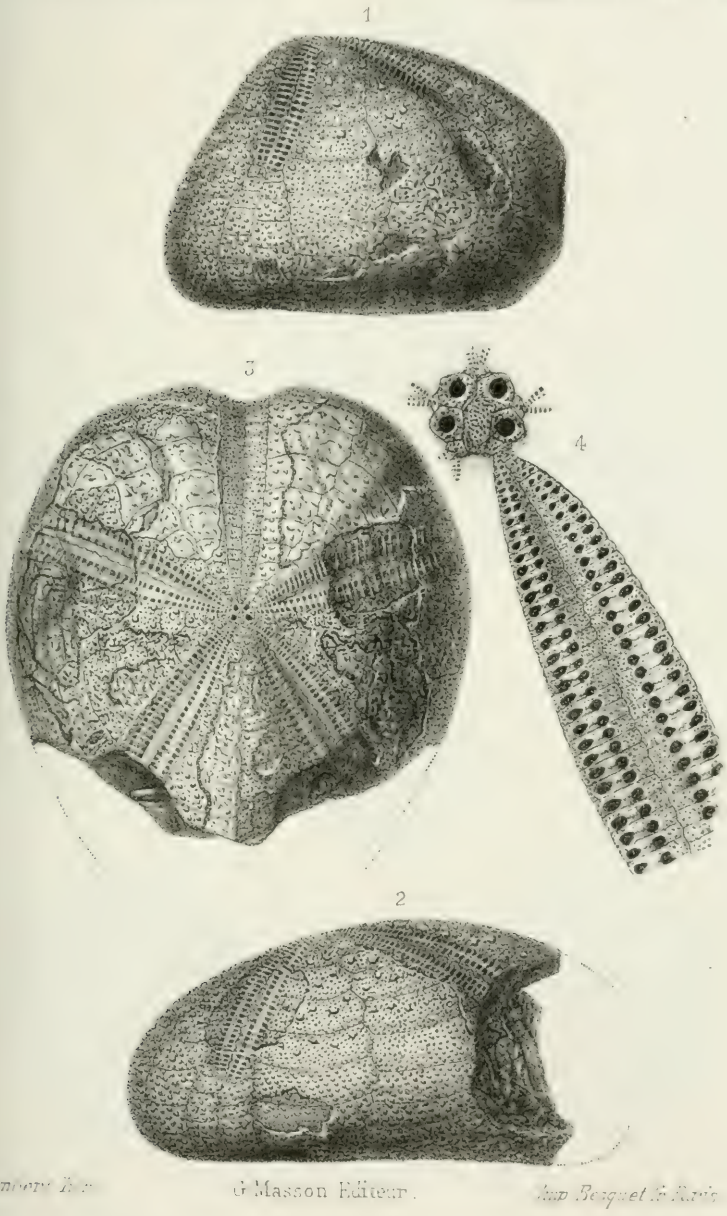
Lambert lith. G.Masson.Editeur. Imp.Becquet fr. Paris.

Macropneustes biarritzensis, Cotteau. Eocène sup.



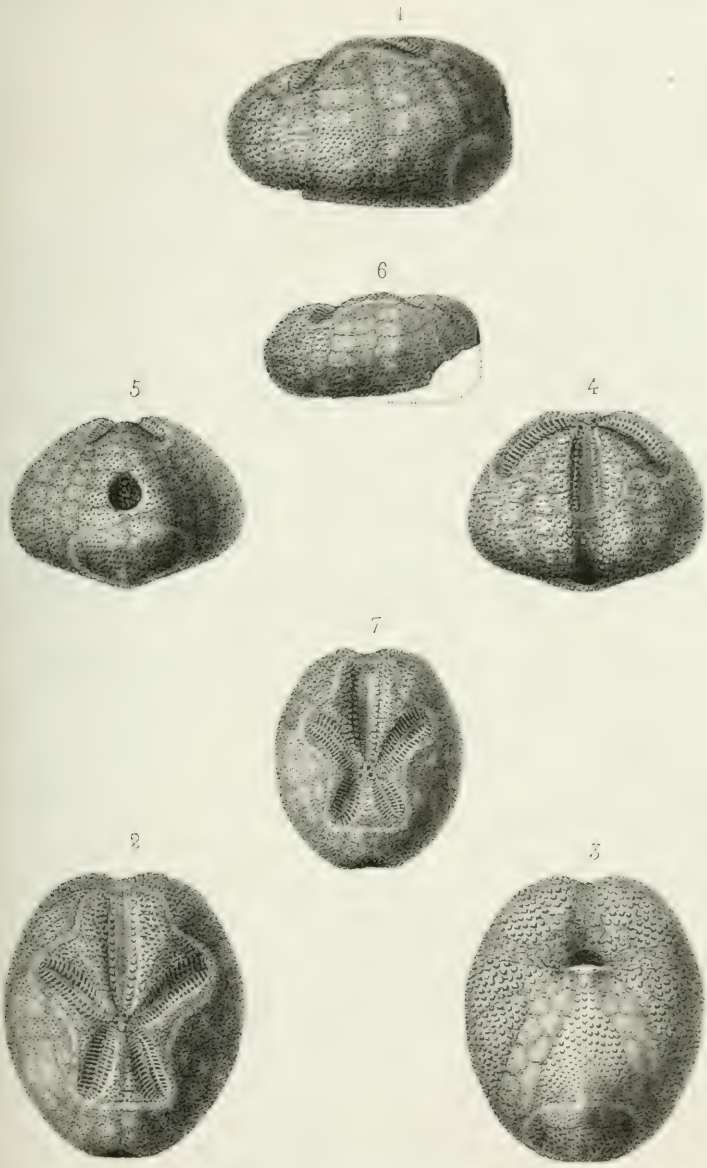
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

1. *Macropneustes biarritzensis*, Cotteau. Eocène sup.
3 5. *M.* _____ *elongatus*, Peron et Gauthier. _ _ _ _



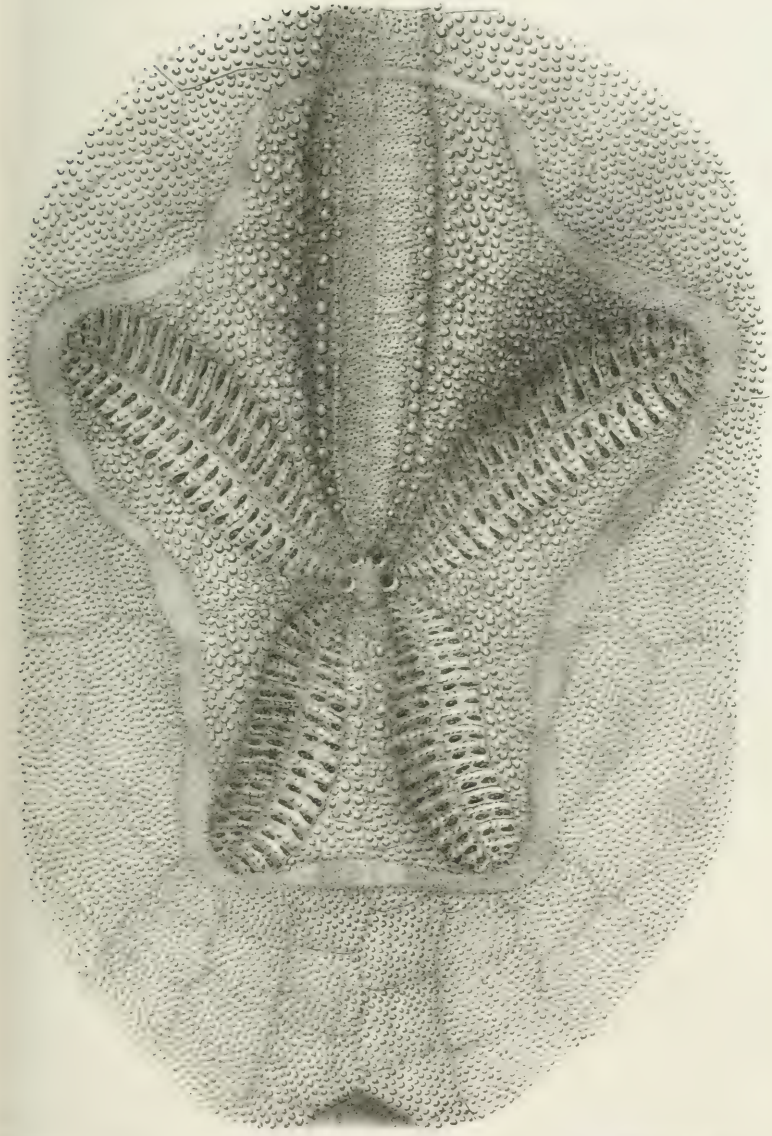
Humbert Ter. G. Masson Editeur. Imp. Becquet fr. Paris

1: *Macropneustes abruptus*, Peron et Gauthier. Eocène sup.
2 4. M. *Baylei*, Coquand.



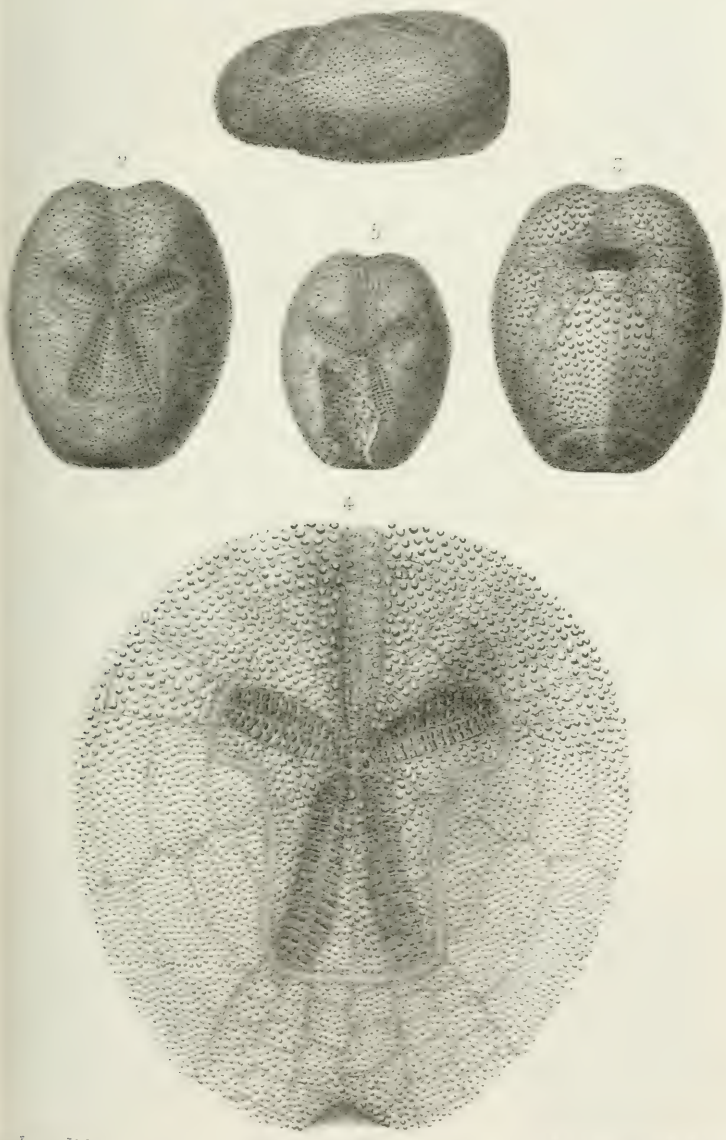
Humbert lith. G. Masson, Editeur Imp. Becquet fils Paris

Brissopsis elegans, Agassiz. Eocène moyen.



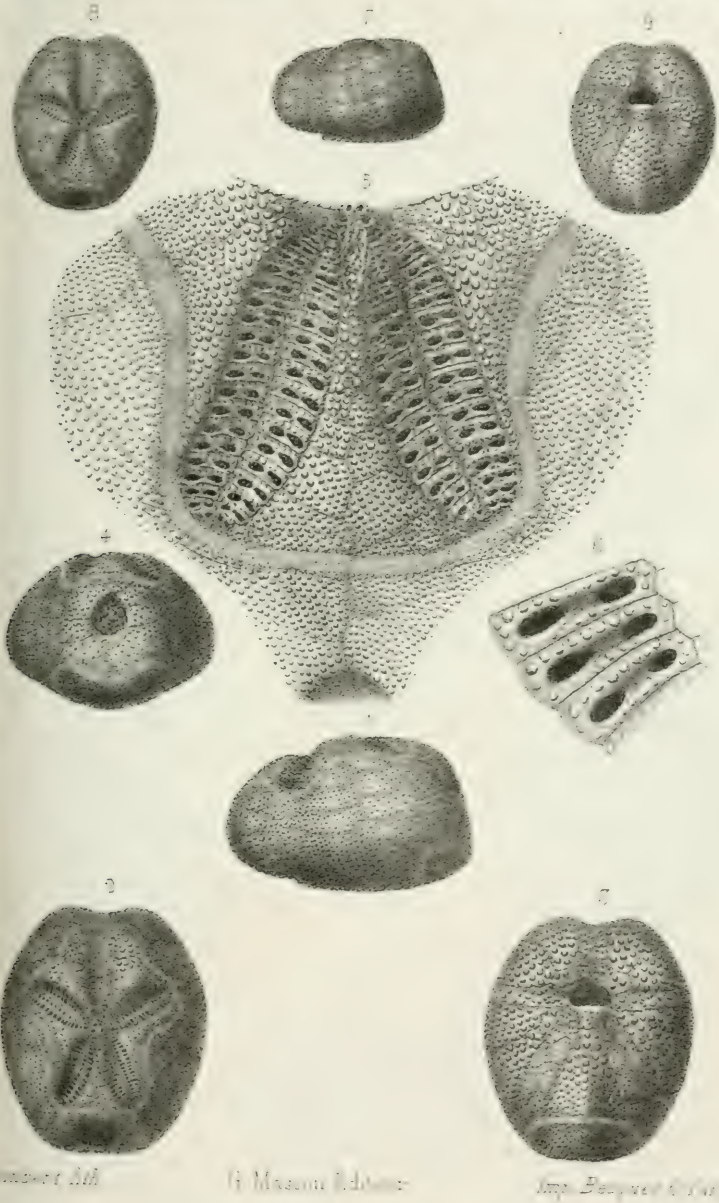
Humbert lith. G. Masson, Editeur. Imp. Becquet & Jouy.

Brissopsis elegans, Agassiz. Eocène moyen.

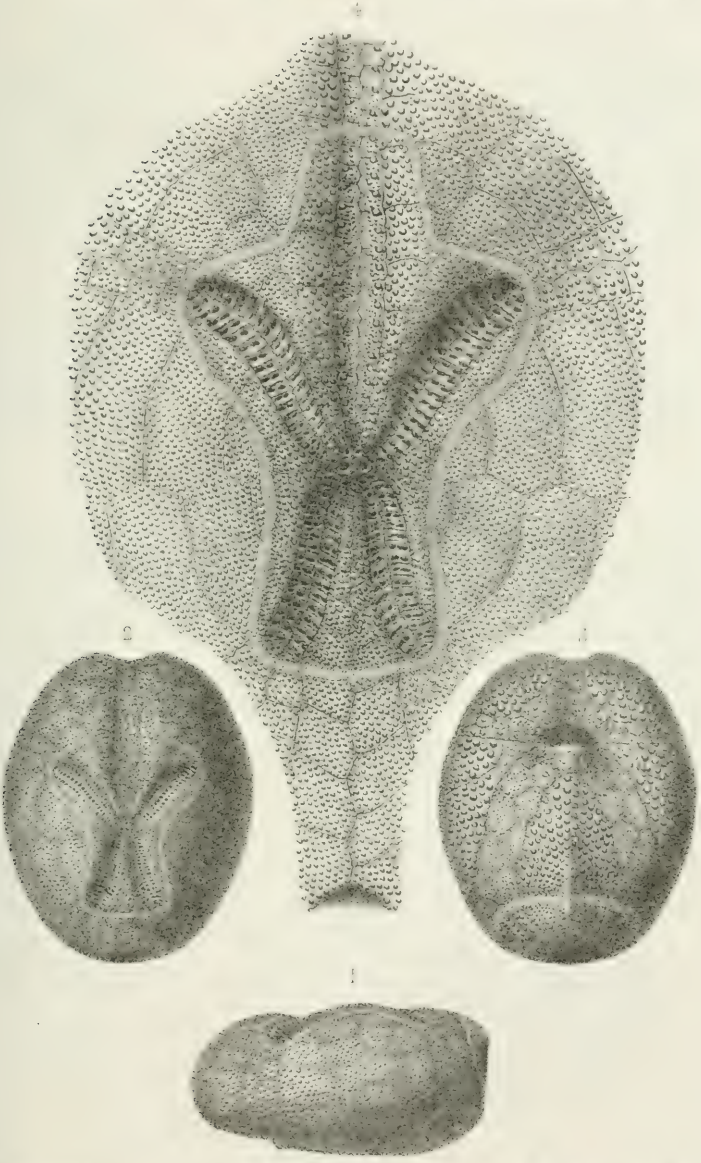


Lambert lith. G. Masson, Editeur. Imp. Lemercier & Cie Paris

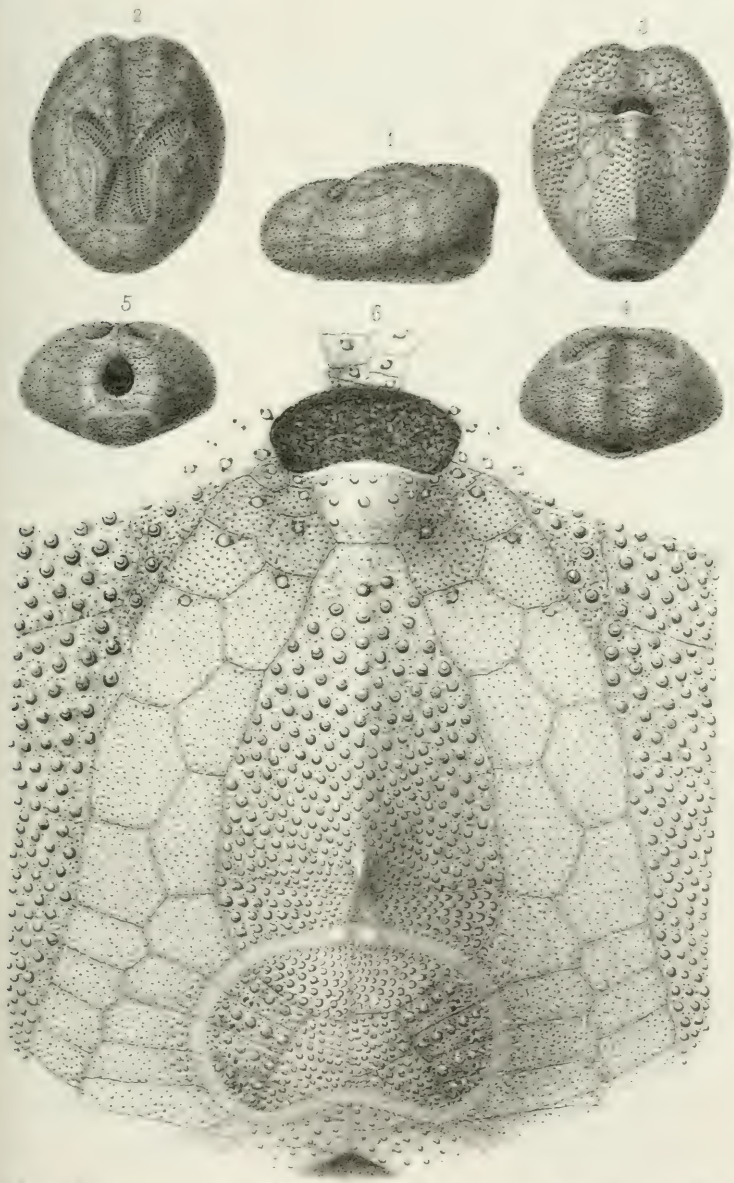
Brissopsis Raulini, Cotteau. Eocène moyen.



Brissopsis Desorcesi, Cotteau. Eocène moyen

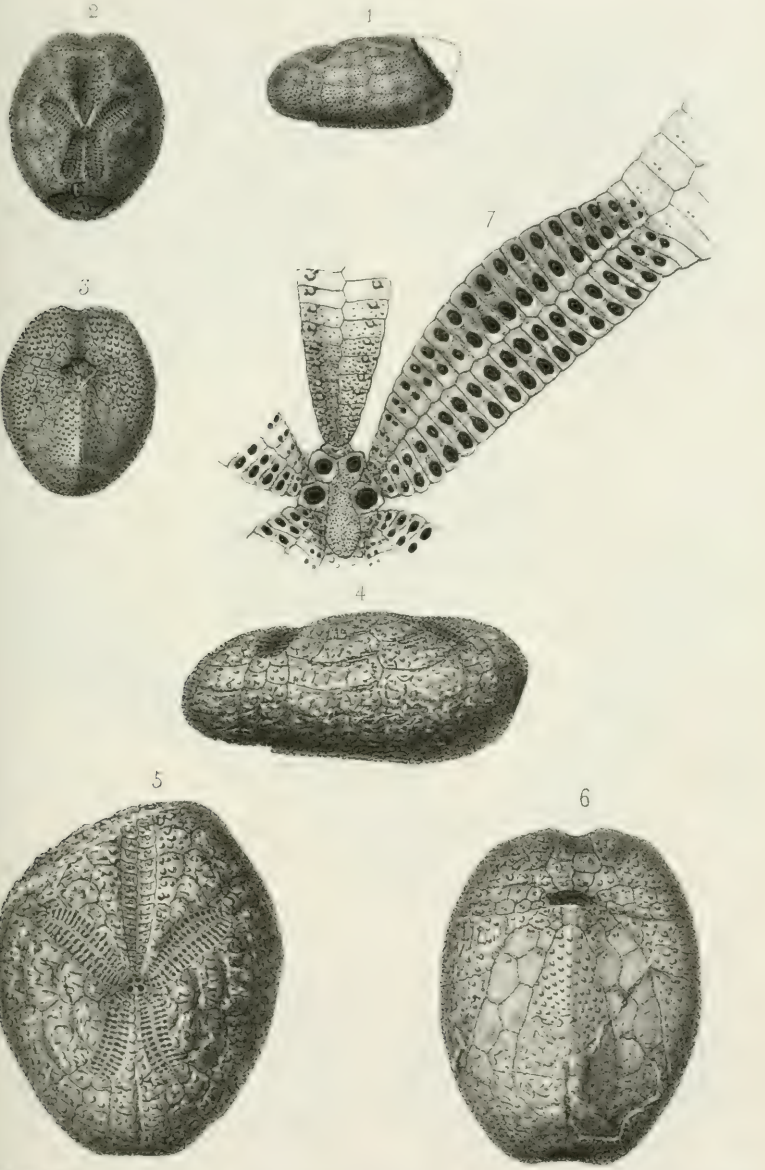


Brissopsis biarritzensis, Cotteau. Eocène sup.



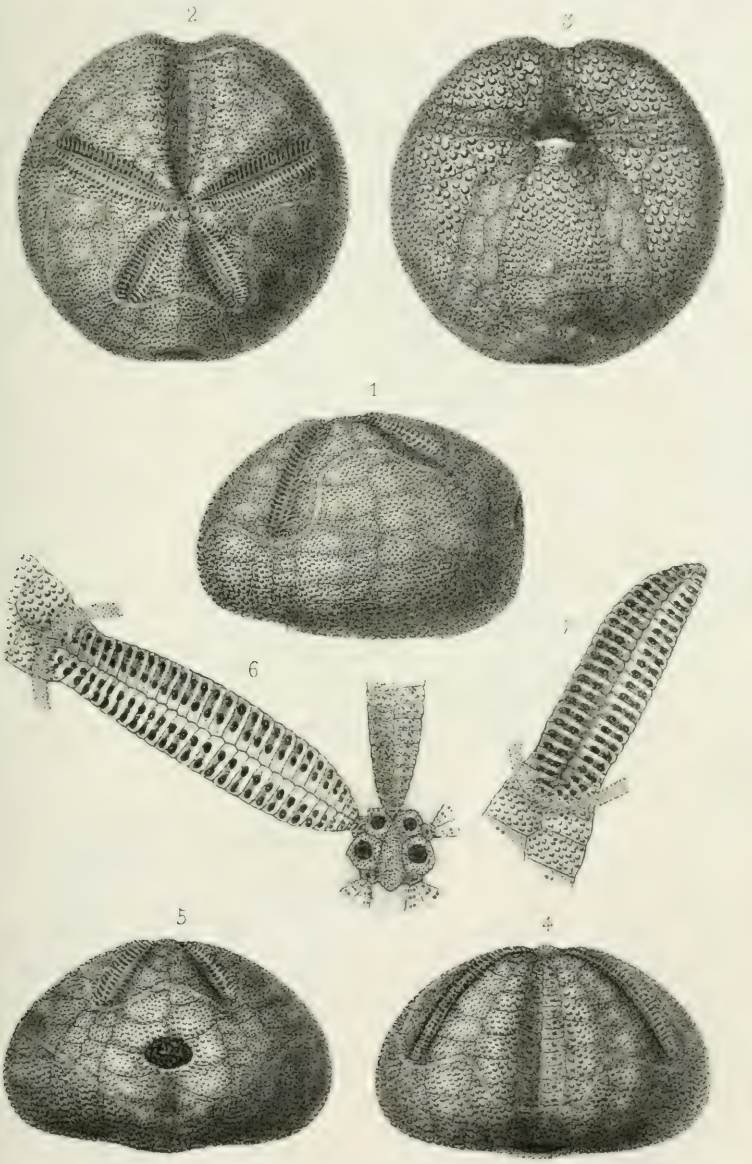
Humbert lith. G. Masson Éditeur Imp. Bouquet & Cie

Brissopsis biarritzensis Cotteau Eocène sup.



Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

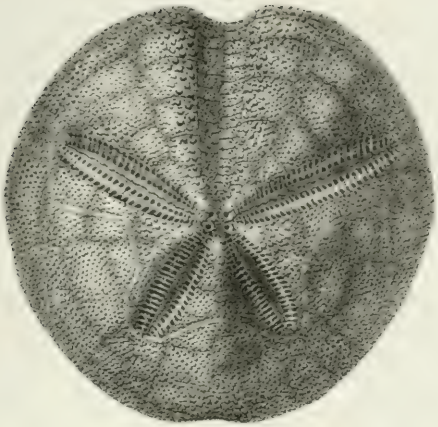
1..3. *Brissopsis biarritzensis*, Cotteau. Eocène sup.
4..7. *B.* ——— *Chaperi*, ——— Eocène moyen.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Linthia subglobosa (*Lamarck*), *Desor. Eocène moyen.*

2



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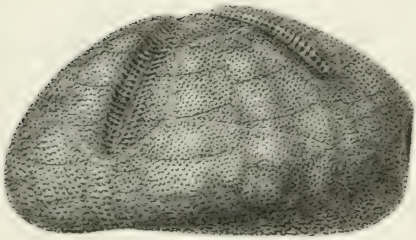

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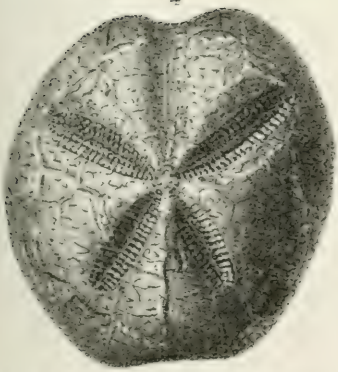

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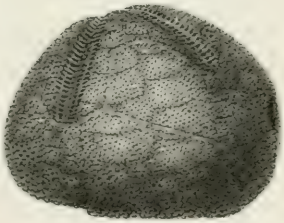
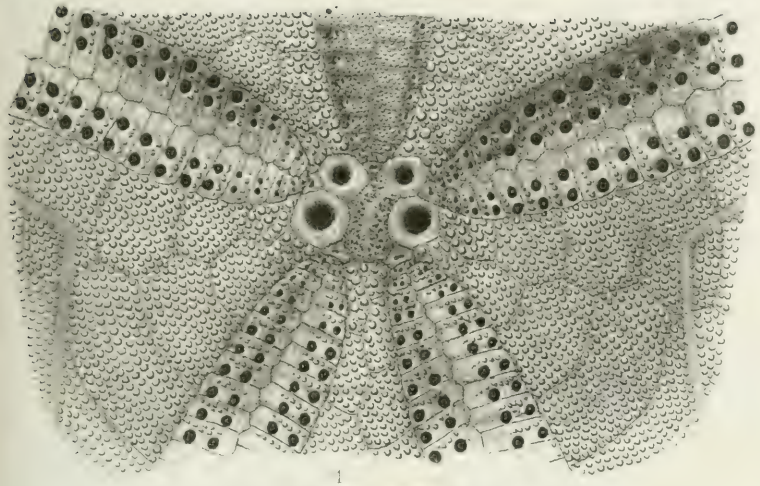


[illegible] G. Masson, Éditeur. Imp. Becquet fr. Paris.

Linthia subglobosa (Lamarck), Desor. Eocène moyen.

4



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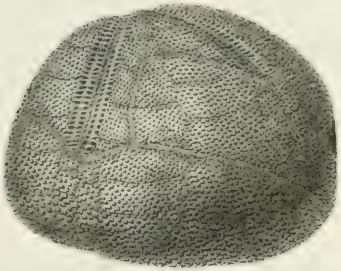

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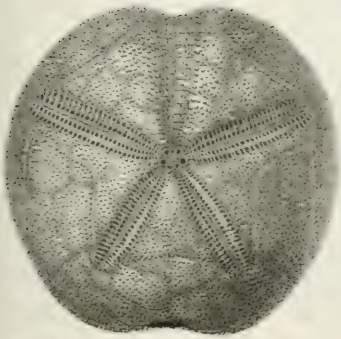

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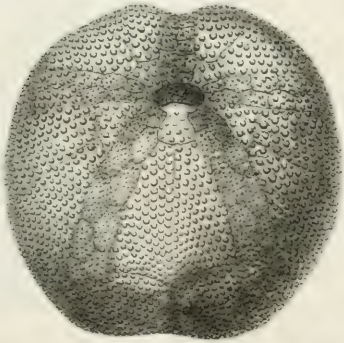
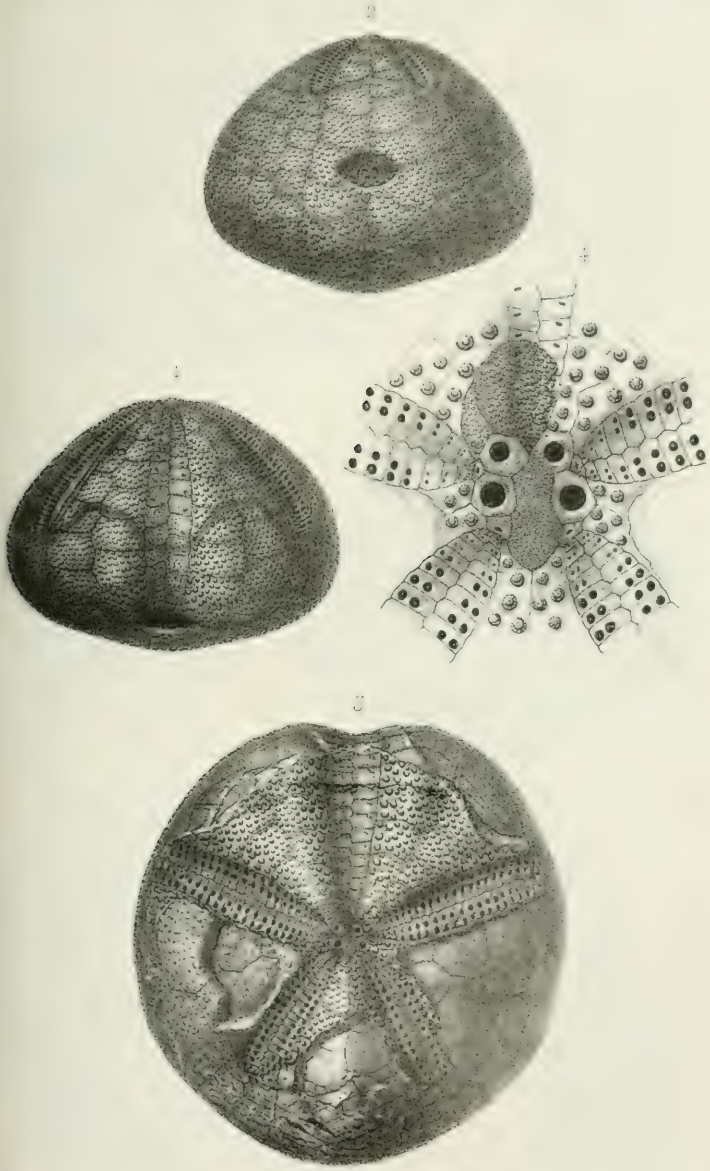


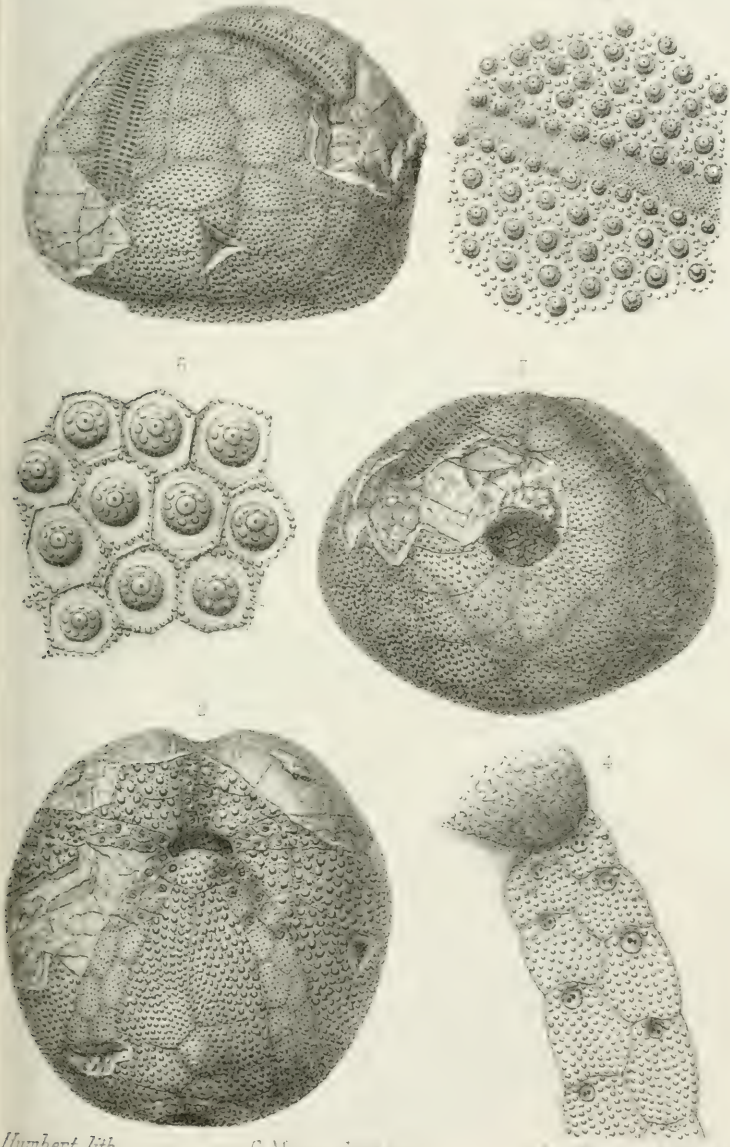
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Linthia inflata (Desor), Cotteau. Eocène moyen



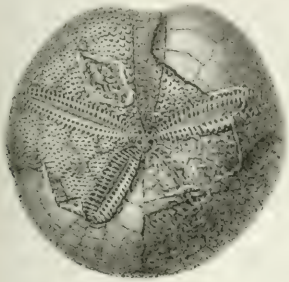
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris*

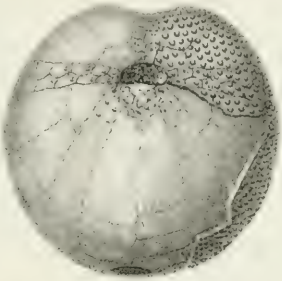
1 et 2. Linthia inflata (Desor), Cotteau. Eocène moyen.
3 et 4. L.____ pomum (Desor), ____ ____ ____

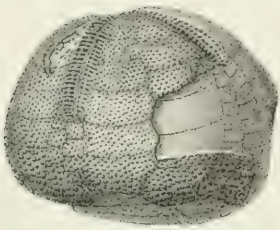


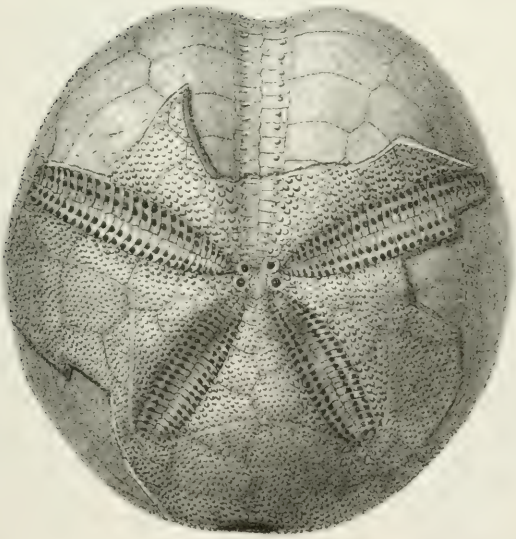
Humbert lith. G. Masson [illegible] Imp. Becquet fr. Paris

Linthia pomum (Desor), Cotteau. Eocène moyen.



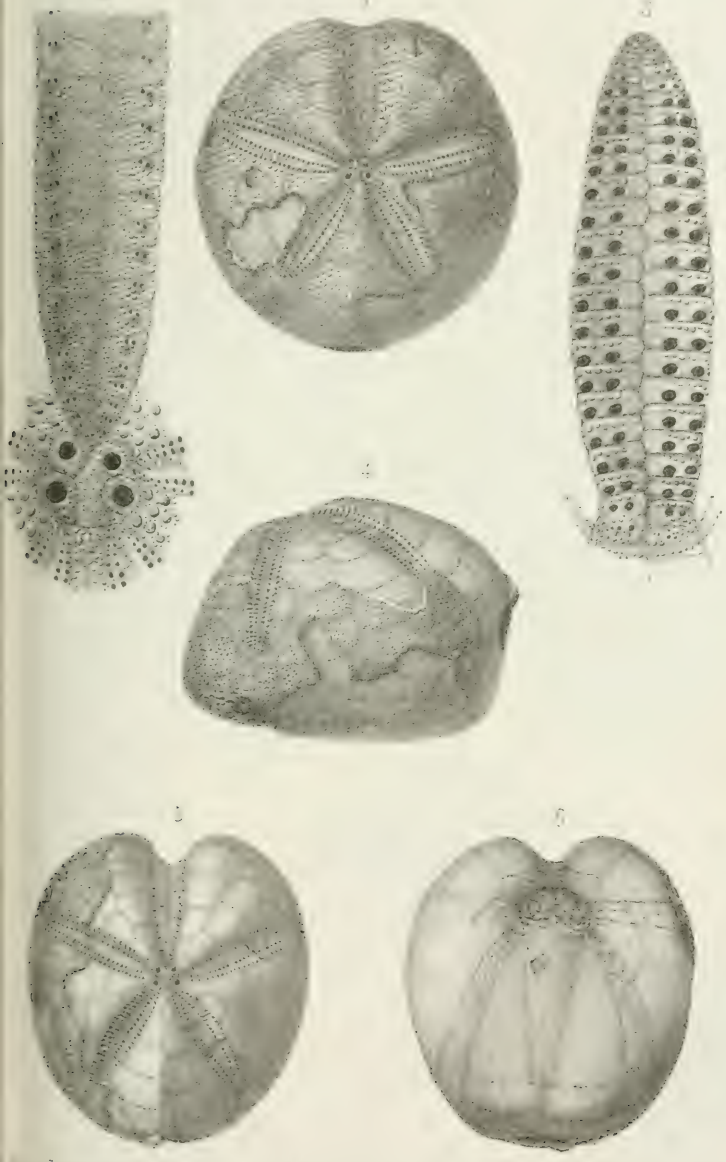






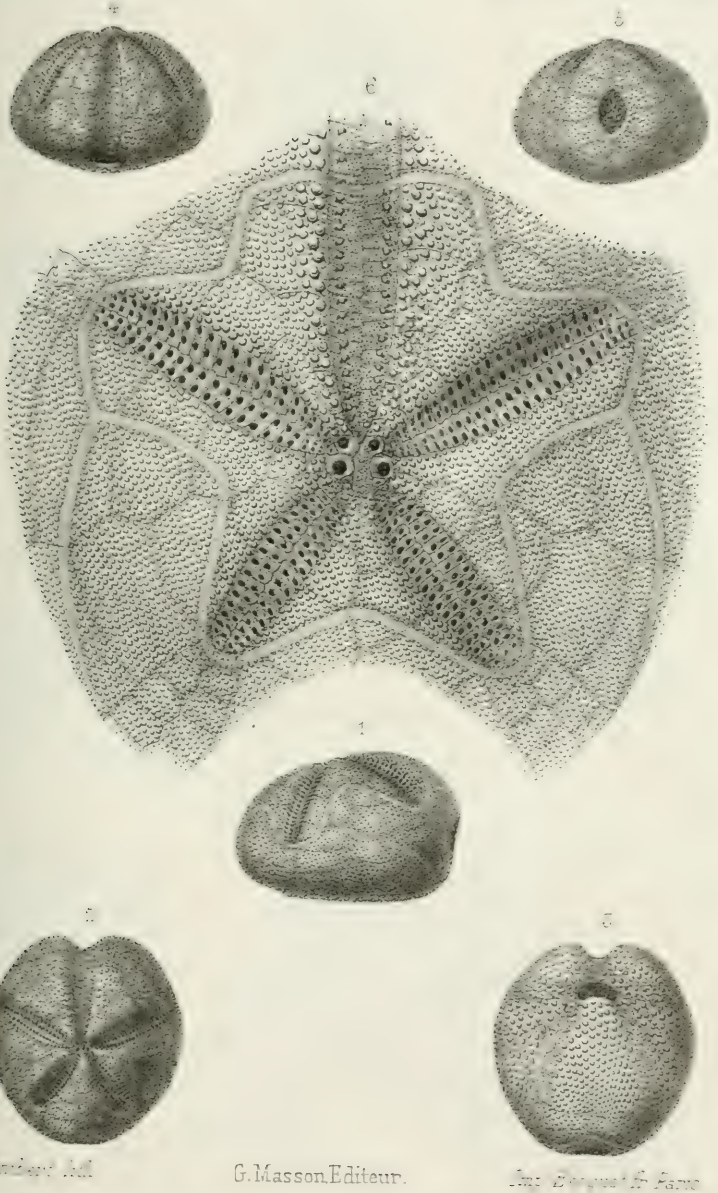
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Linthia pomum (Desor), Cotteau. Eocène moyen.



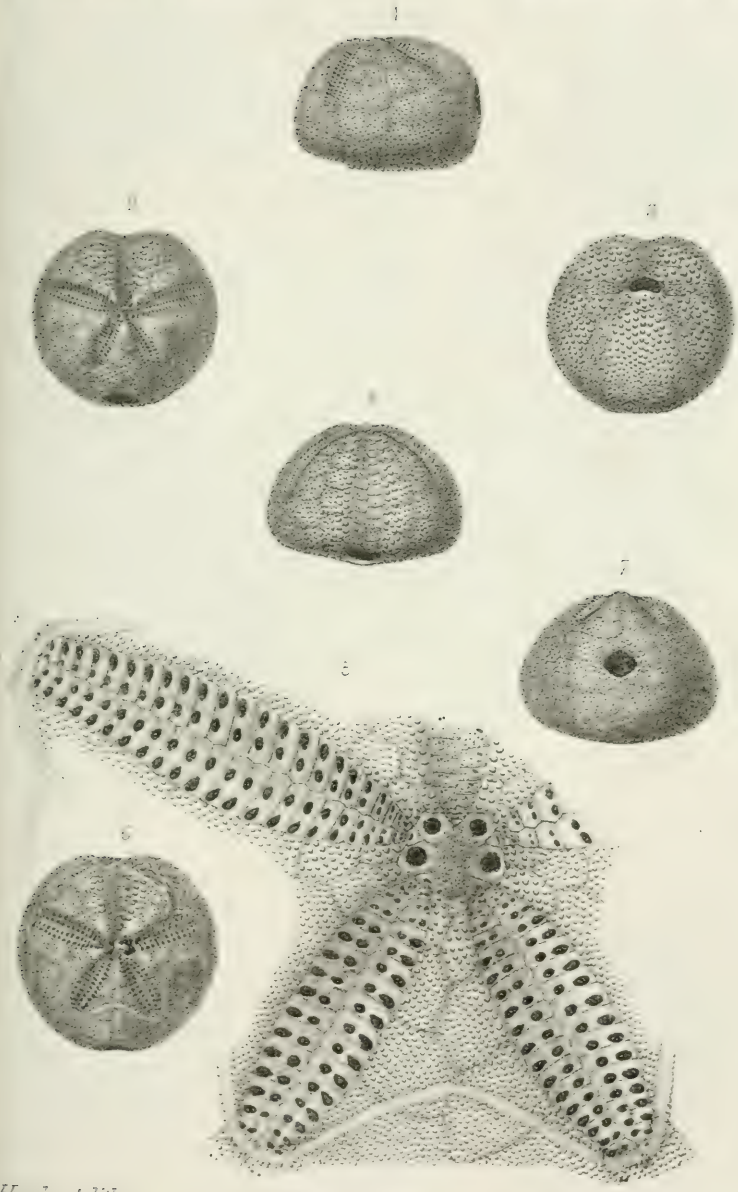
mbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

1–3. *Linthia pomum* (Desor), Cotteau. Eocène moyen.
4–6. *L.* — *Benessensis* Cotteau. — —



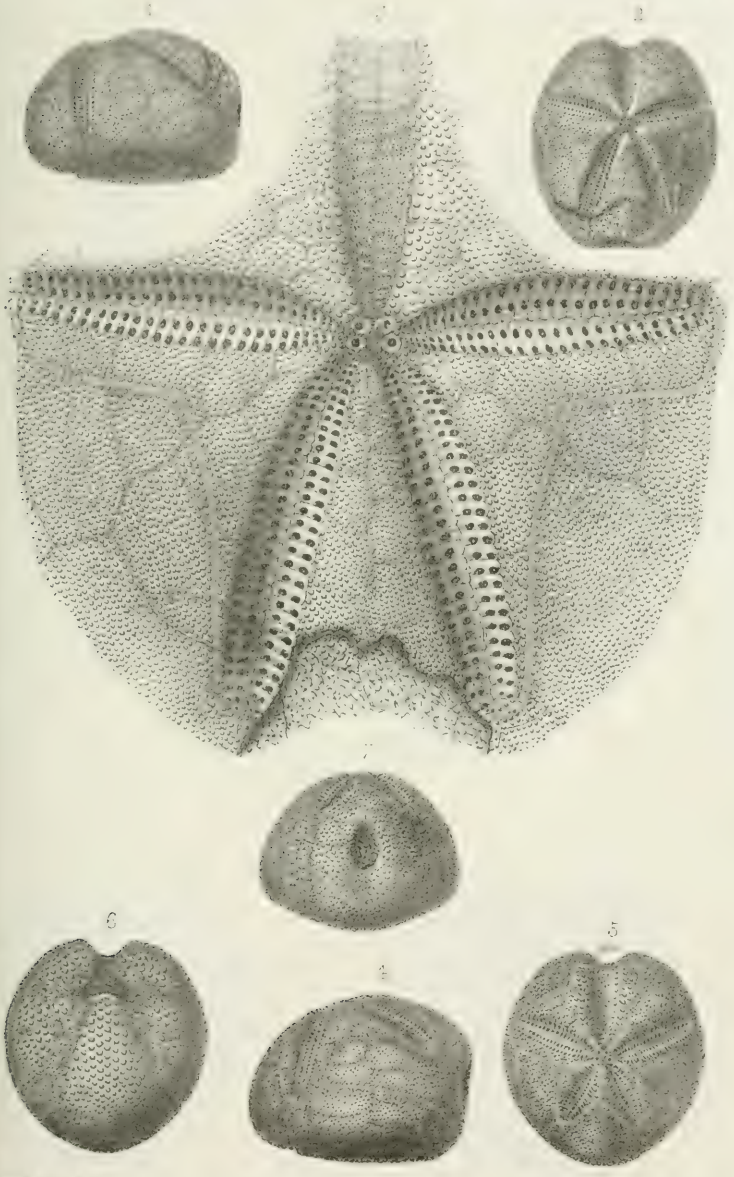
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Linthia Ducrocqui, Cotteau. Eocène moyen.



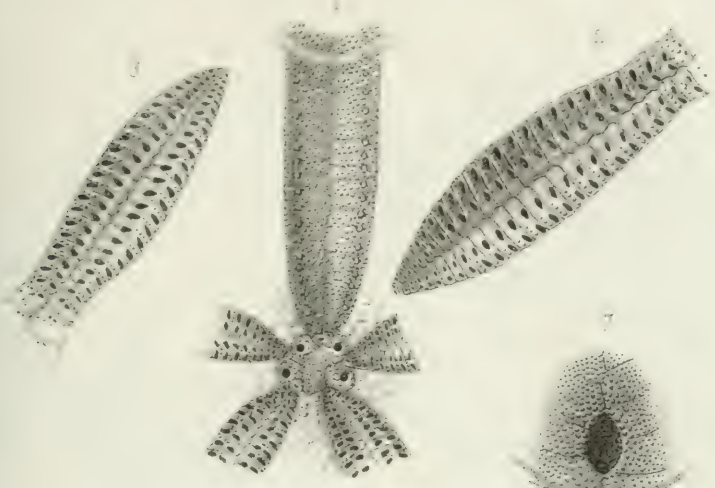
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

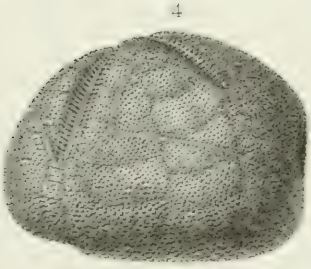
Linthia carentonensis. Cotteau. Eocène moyen.

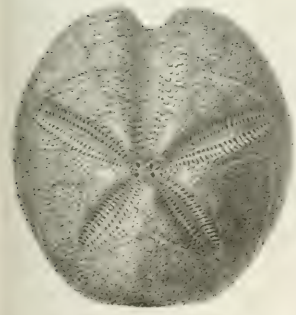


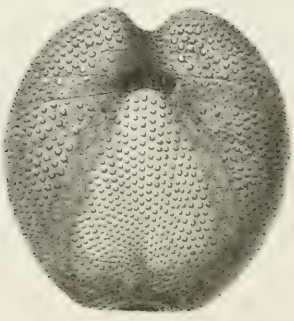
G. Masson, Editeur. Imp. Becquet fr. Paris.

1–3. Linthia Pomeli, Cotteau. Eocène moyen.
4–7. L. ——— *Raulini*, ——— ——— ———



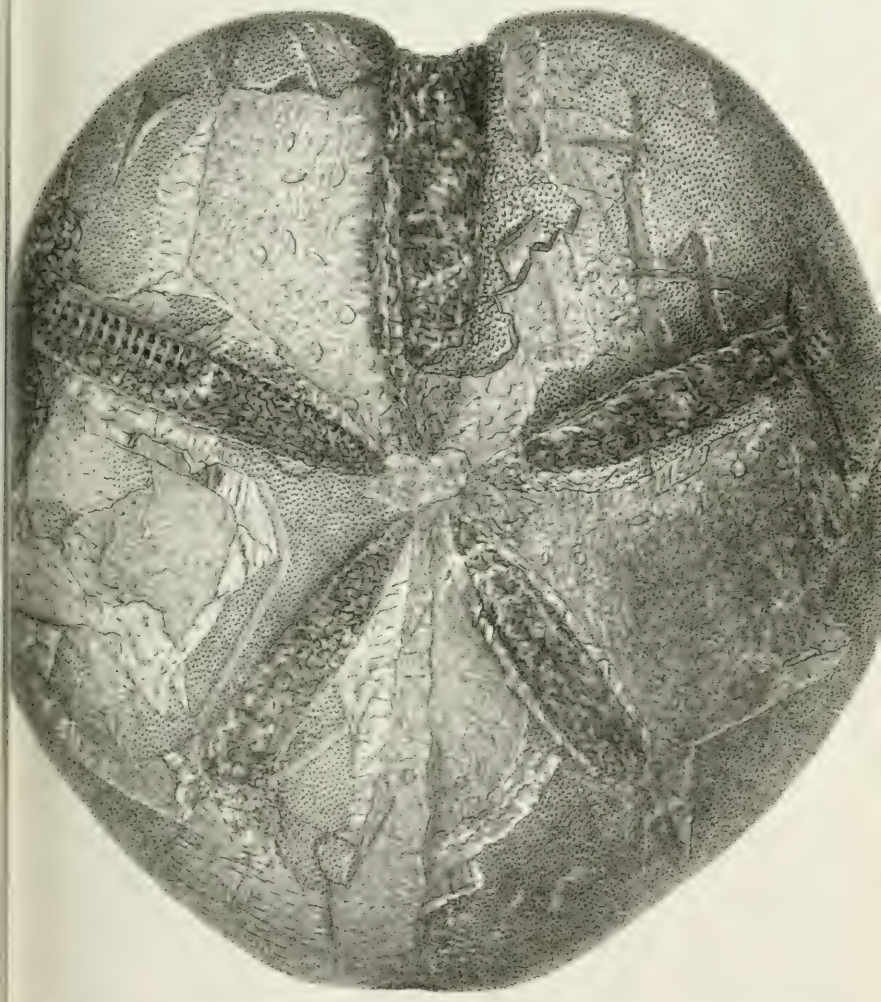






Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

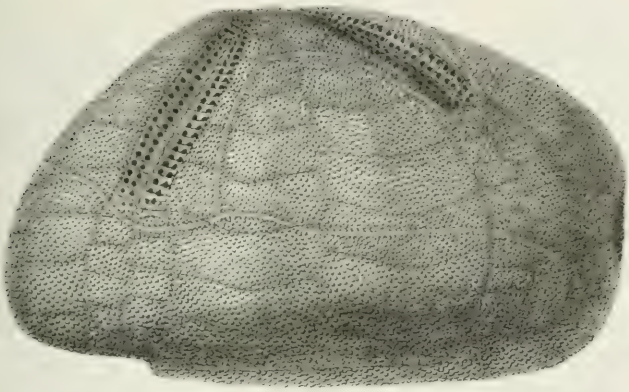
Linthia Raulini, Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Linthia insignis, Merian. Eocène moyen.

1



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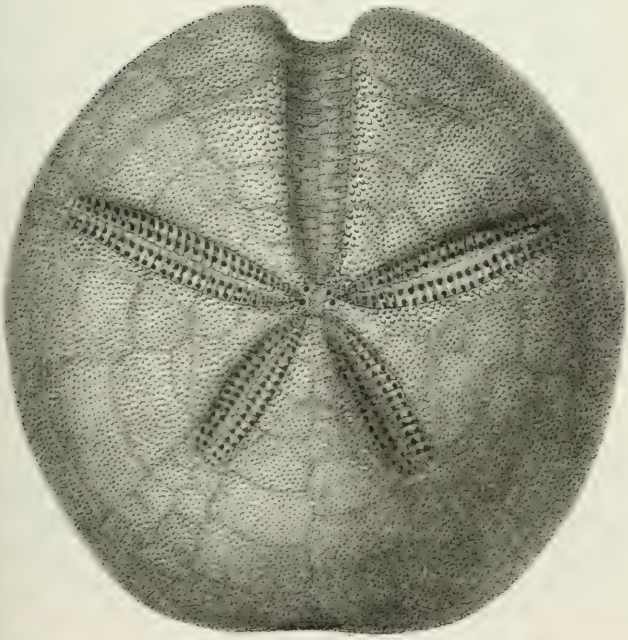
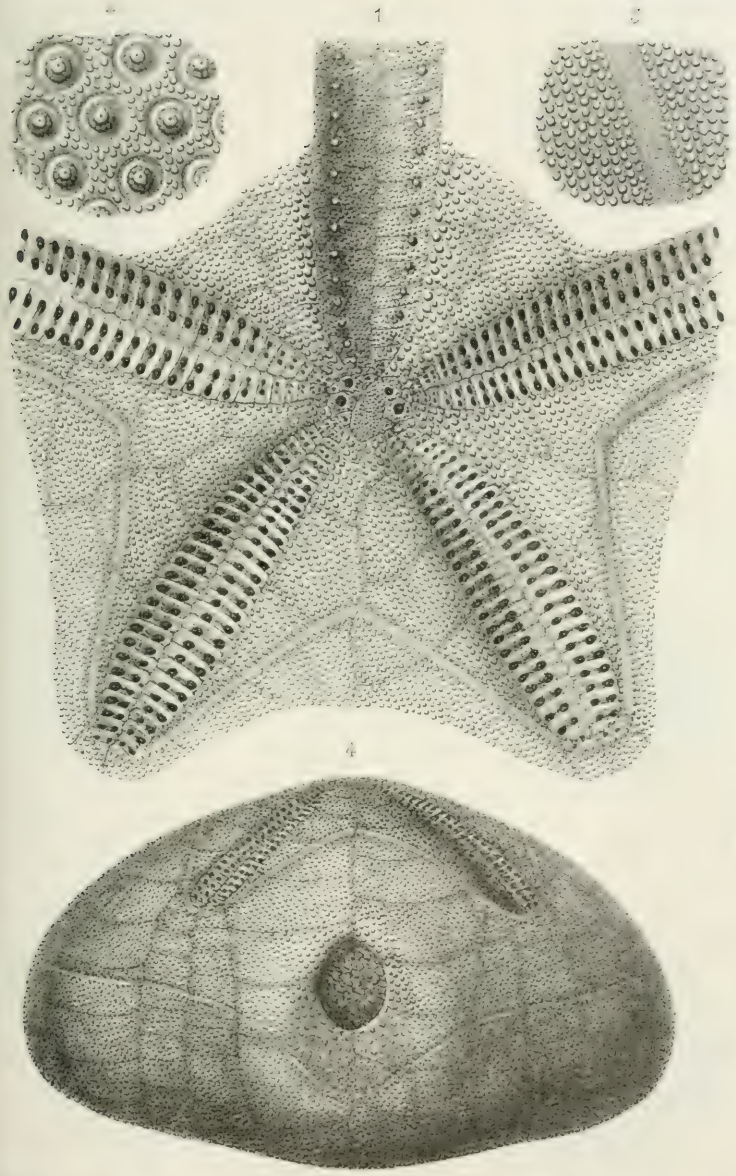


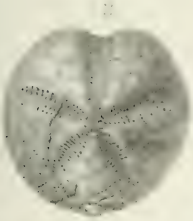
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

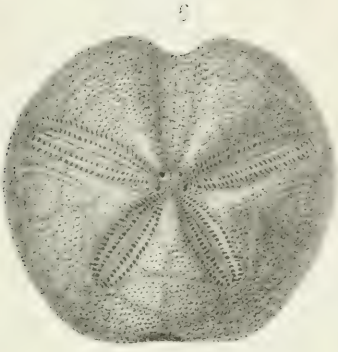
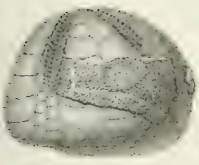
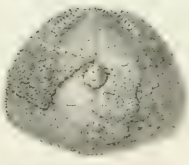
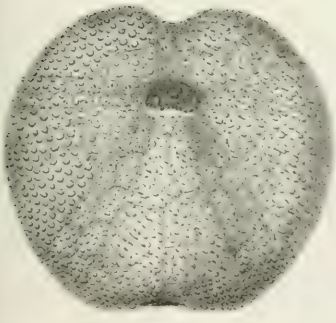
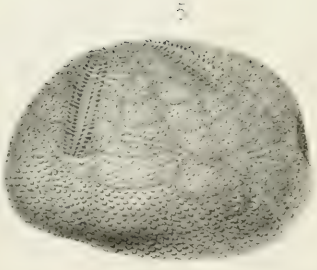
Linthia Rousseli, Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur. Imp Becquet & Pariset

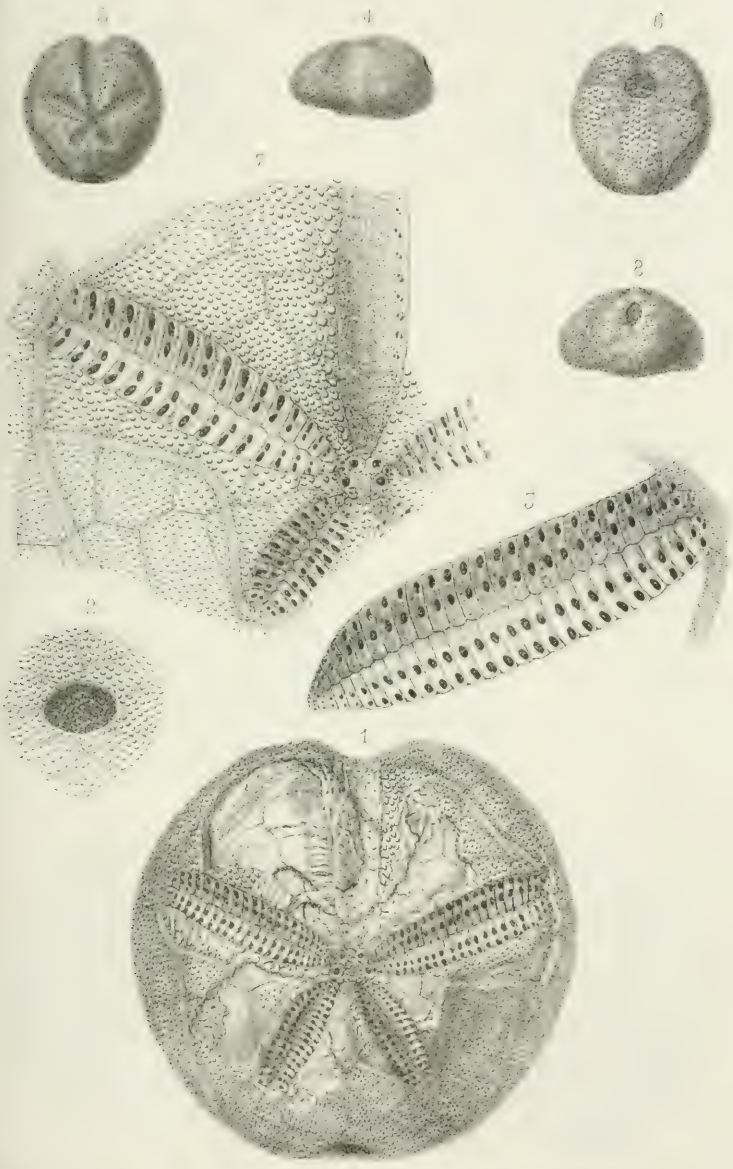
Linthia Rousseli, Cotteau. Eocène moyen



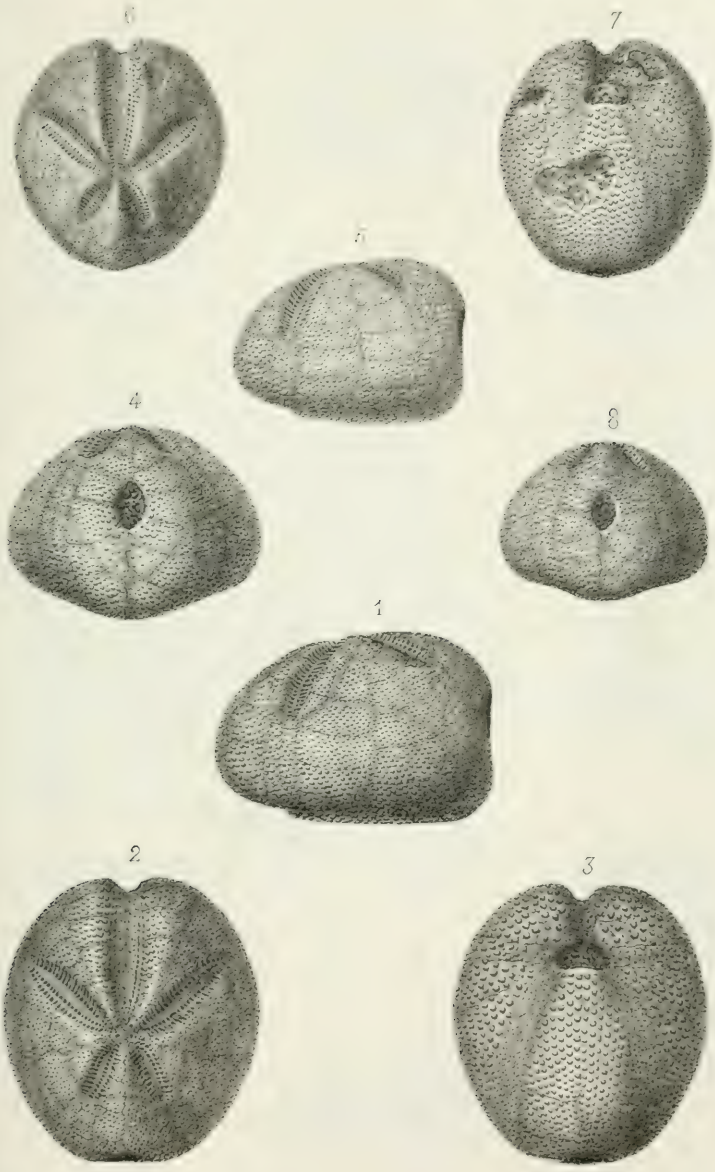
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

1–4. Linthia carentonensis, Cotteau Eocène moyen.
5–7. L._____ Orbignyi, _____ ___ _____



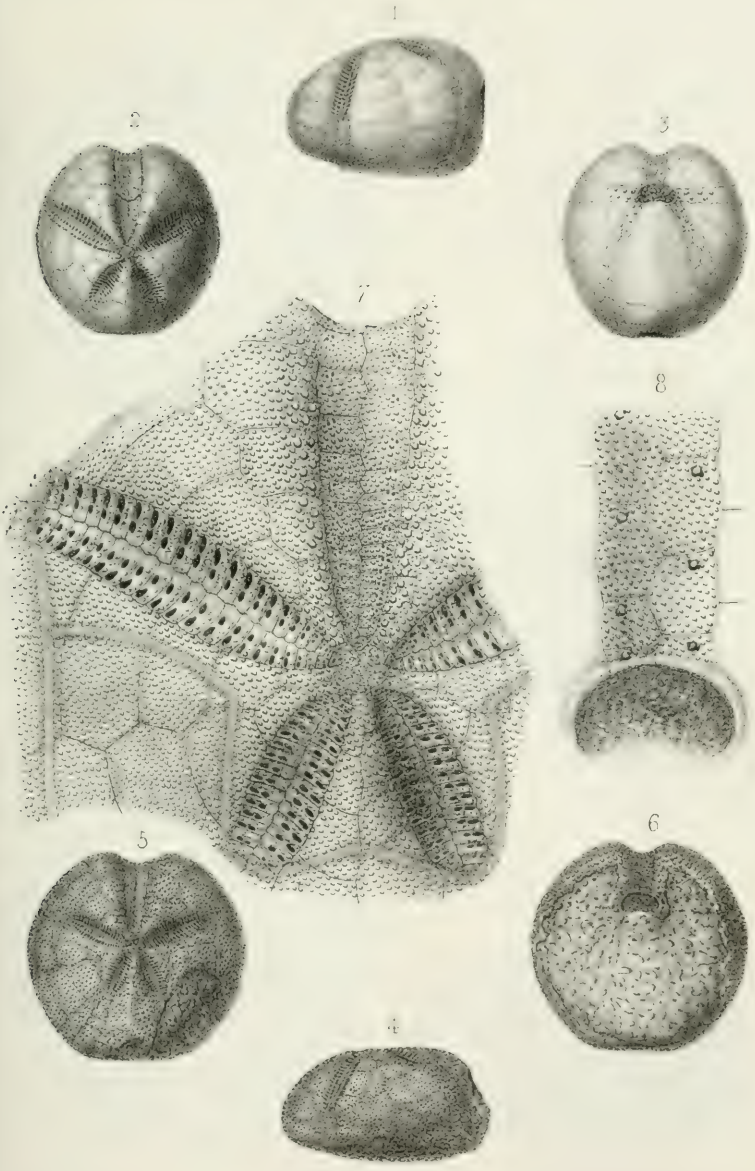
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

1—3. Linthia Orbignyi, Coteau Eocène moyen.
4—8 L.— — arizensis, — —



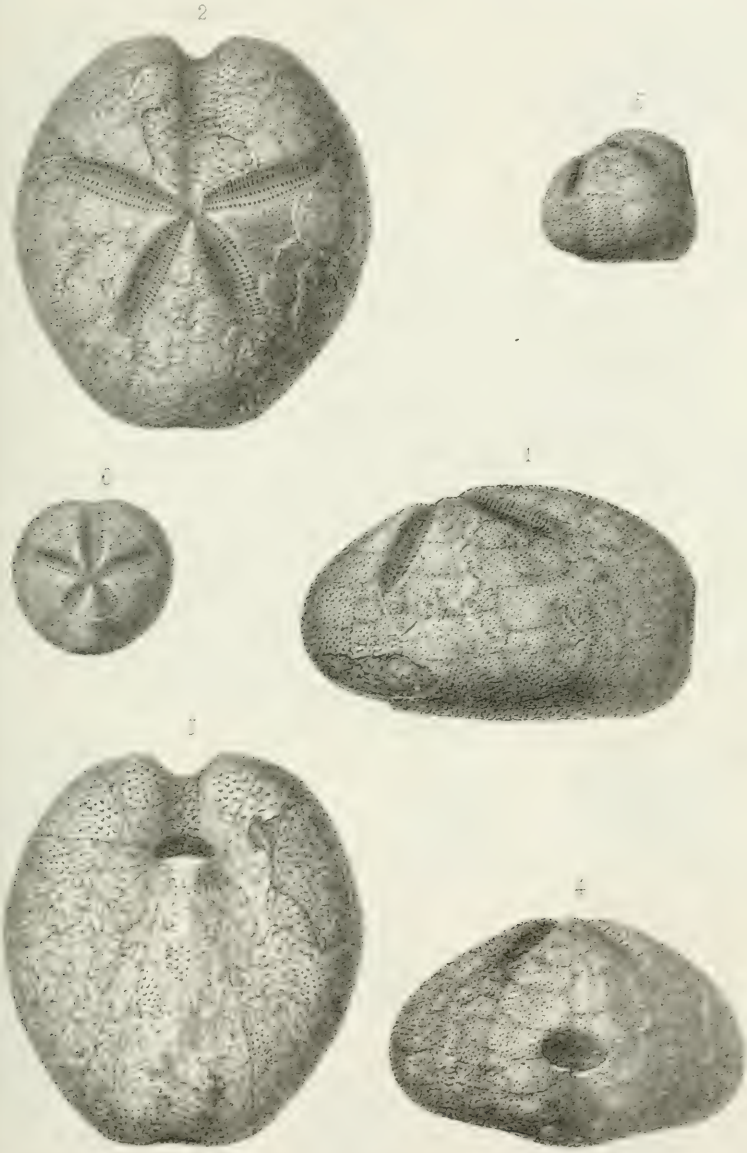
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Linthia Cotteaui, Tournouer. Eocène moyen.



Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

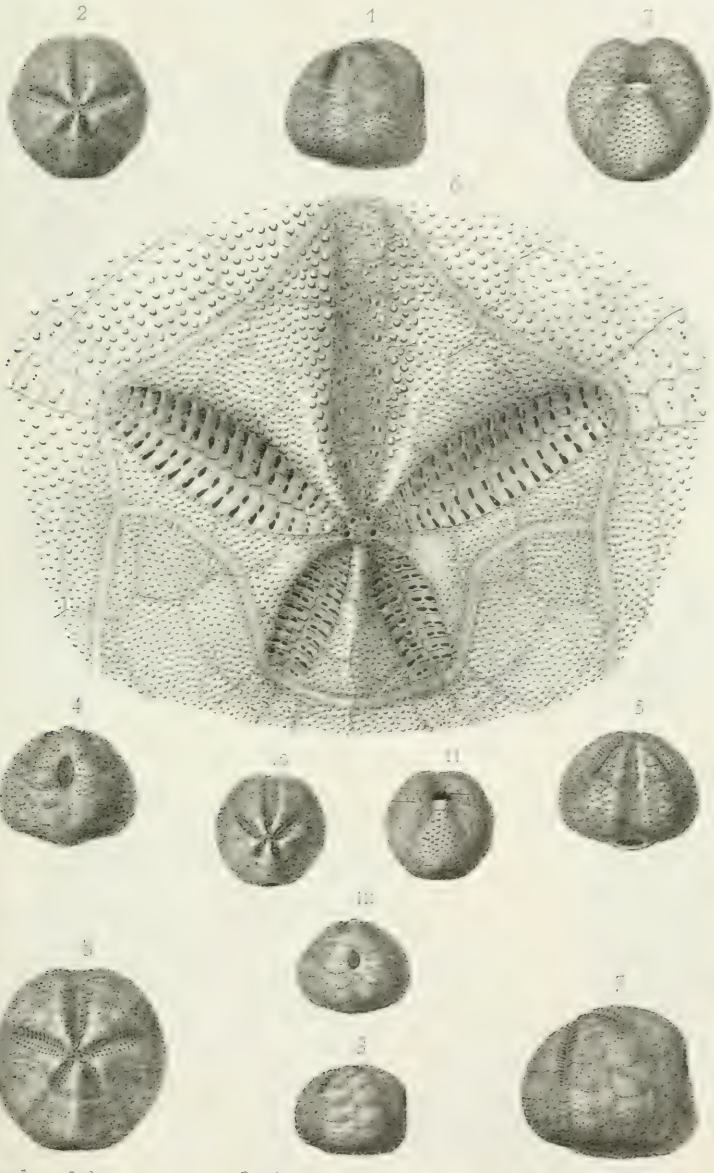
1 . 3. *Linthia incerta*, Cotteau. Eocène moyen.
4 – 8. *L.* ——— *pyrenaica*, ——— ——— ———



Humbert lith. G. Masson, Éditeur. *Imp. Becquet fr. Paris.*

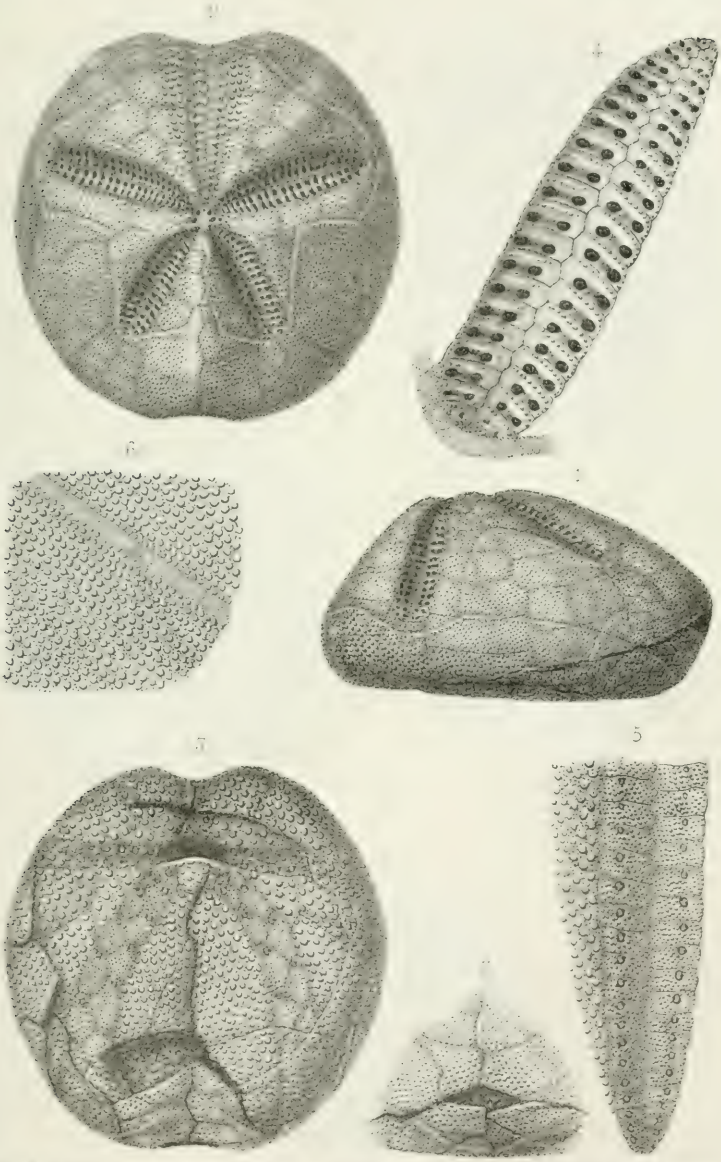
1 — 4. Linthia dubia , Cotteau. Eocène sup.

5 et 6. L._____ verticalis (Agassiz), Dames. — —



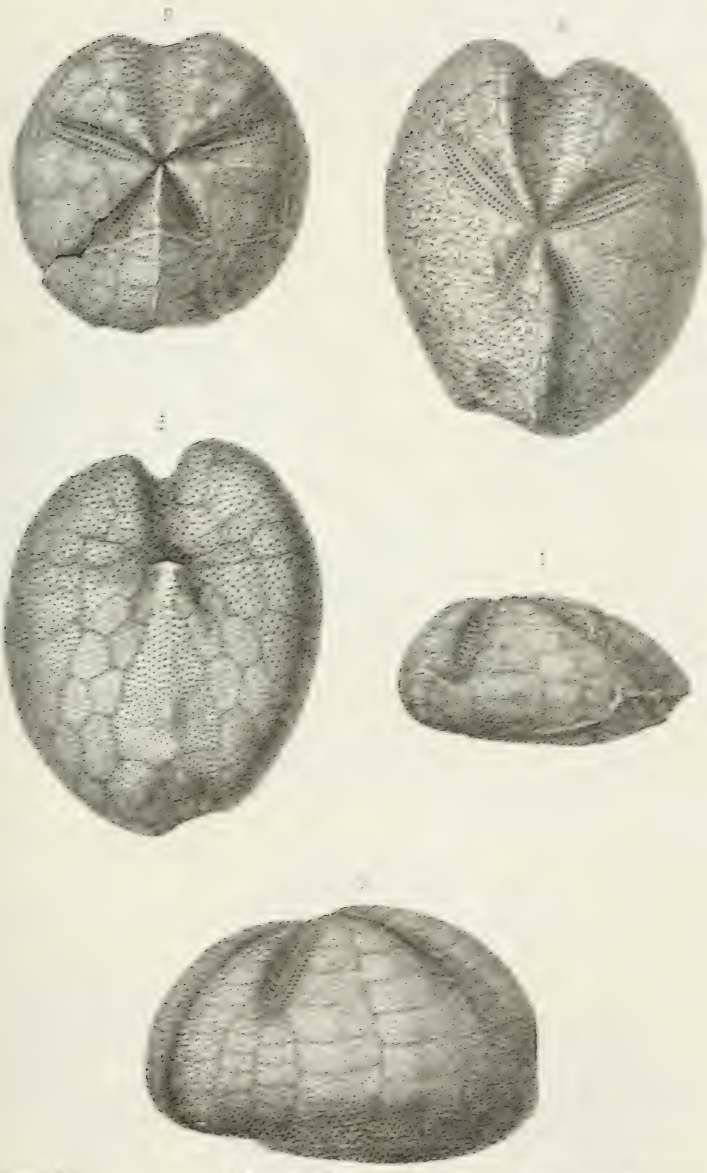
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Linthia verticalis (Agassiz), Dames Eocène sup.



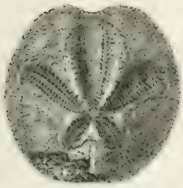
Hanhart lith. G. Masson Editeur. Imp. Becquet fr. Paris

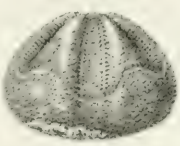
Linthia Heberti, Cotteau. Eocène sup.

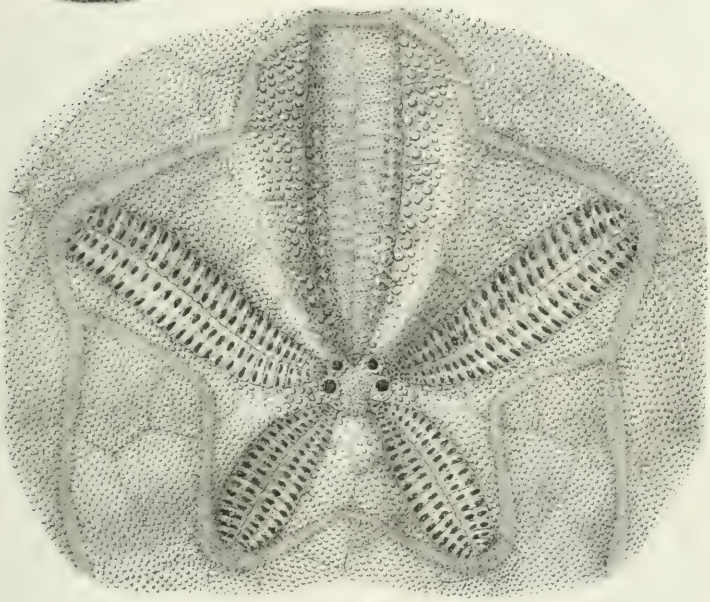


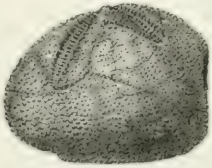
1 et 2. *Linthia Heberti*, Cotteau. Eocène sup

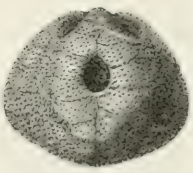
3 — 5. *L.* ——— *lisulca* Peron et Gauthier — —





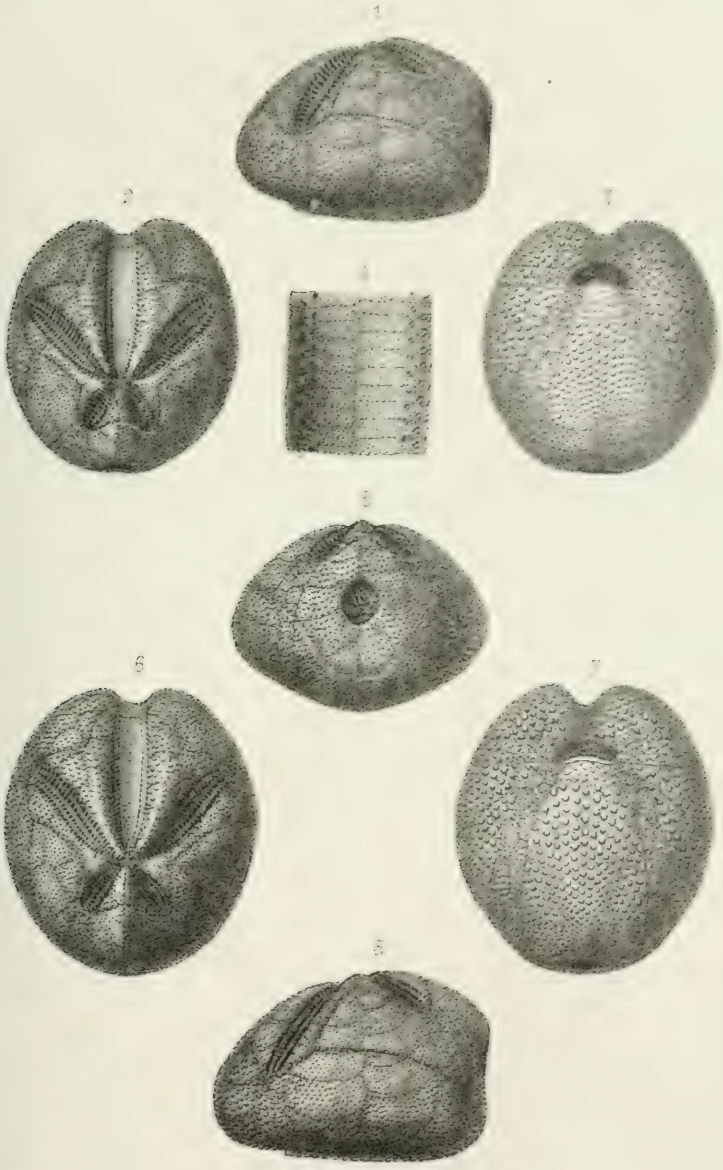






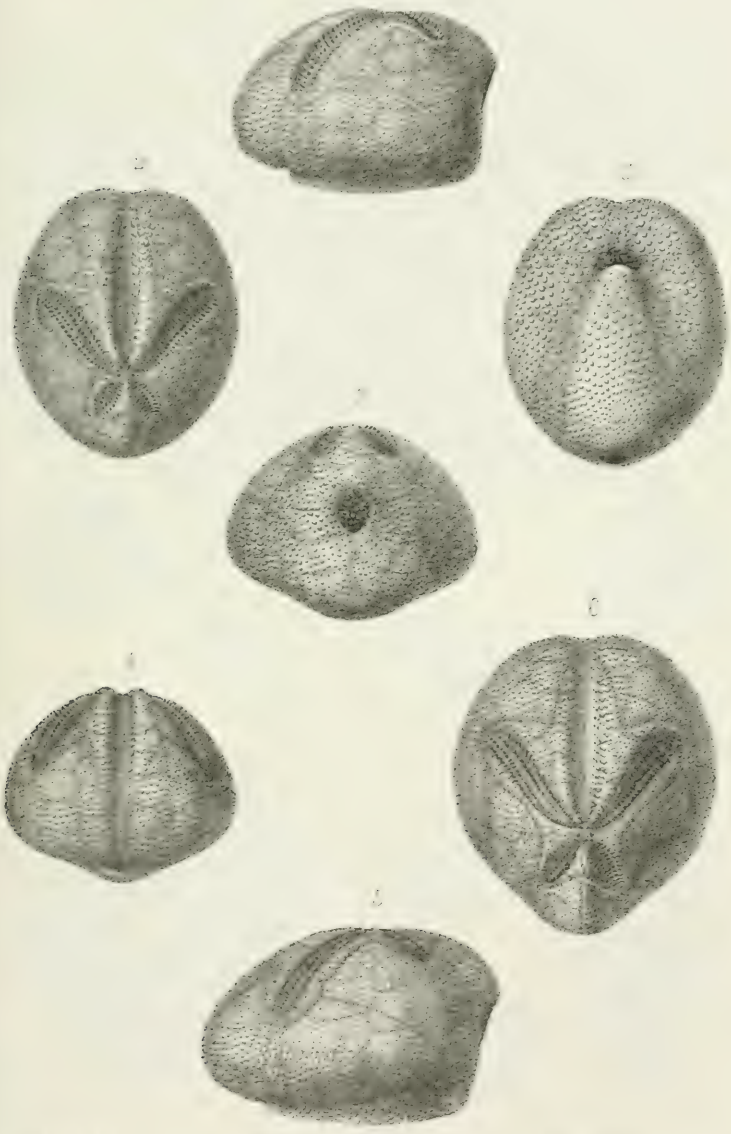
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Schizaster Des Moulinsi (*Des Moulins*), *Cotteau. Eocène moyen.*

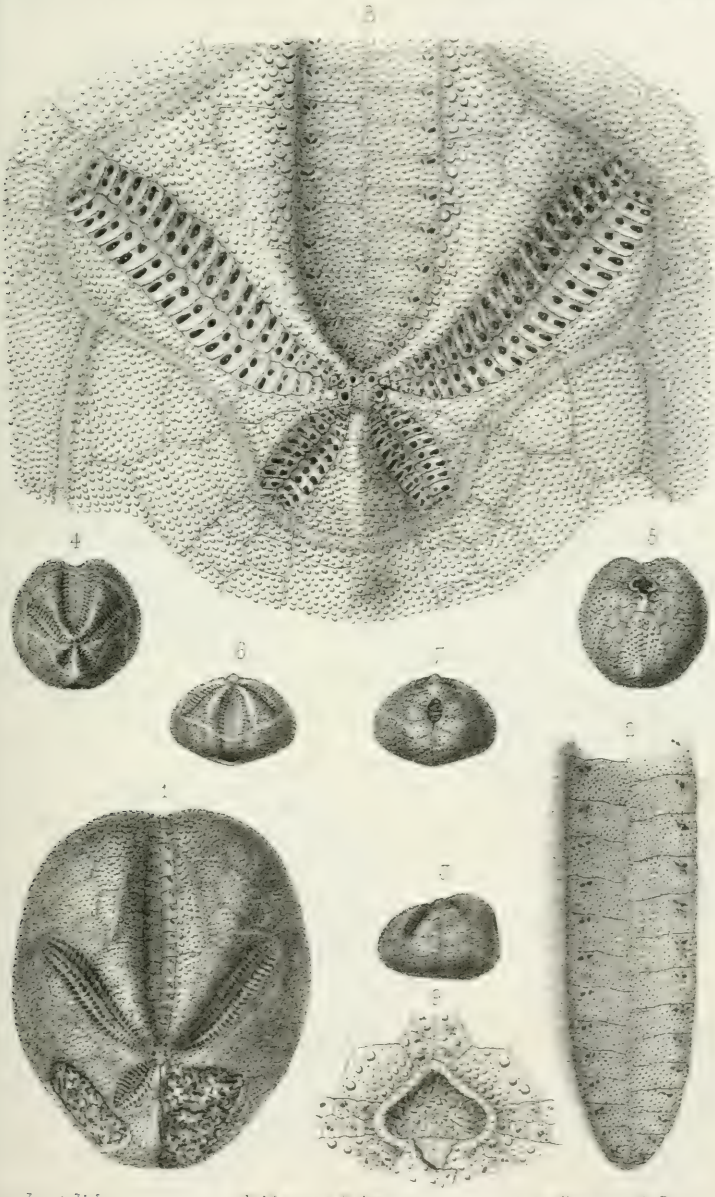


Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris*

Schizaster Des Moulinsi (*Des Moulins*), Coteau. Eocène moyen

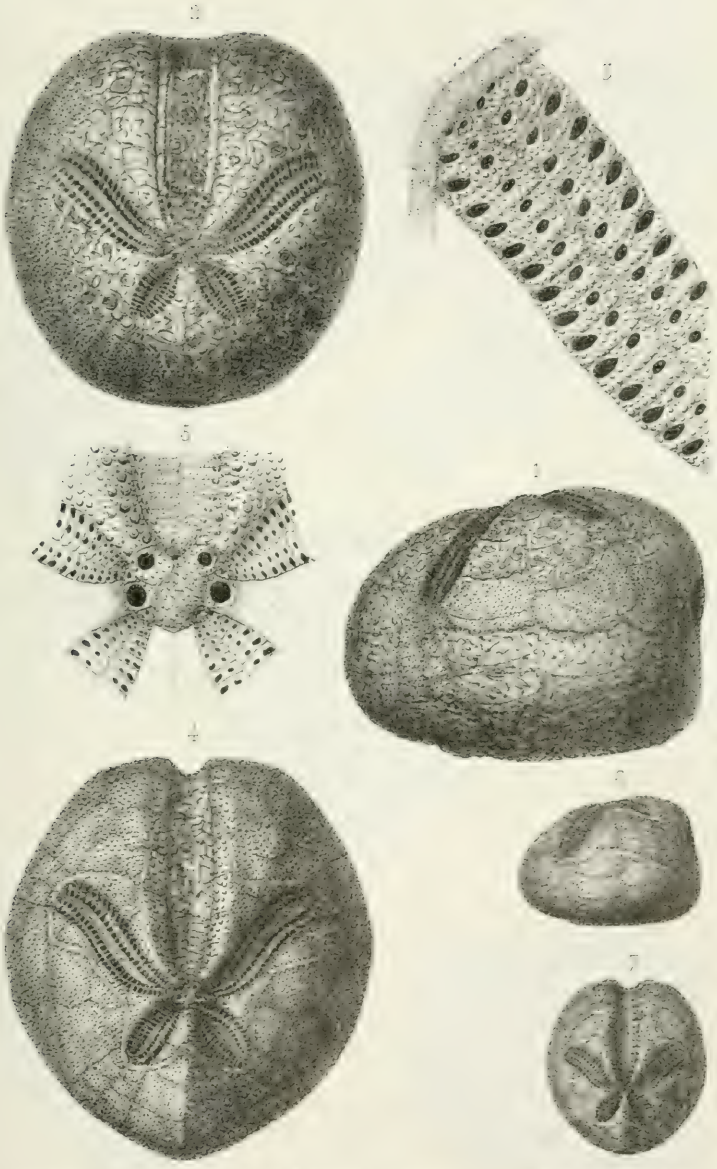


Schizaster Archiaci (*d'Archiac*), Colleau. Eocène moyen.



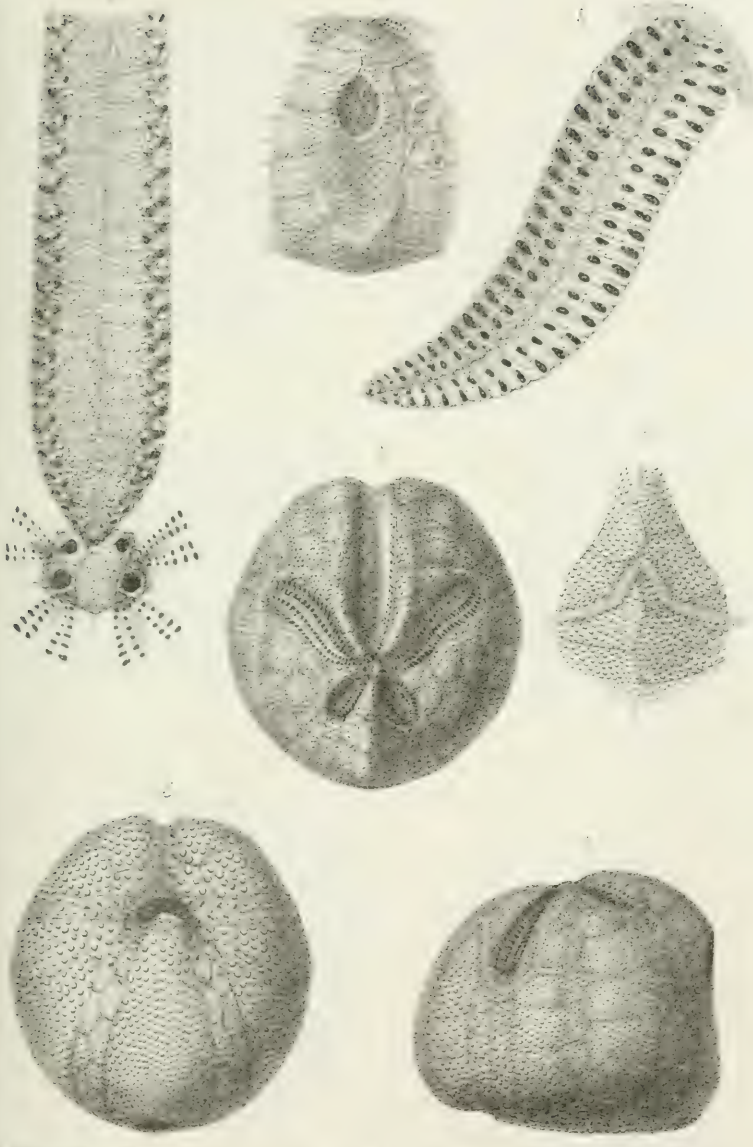
Humbert lith. G. Masson Éditeur imp. Bergue et Jarr.

1 et 2. *Schizaster Archiaci* (d'Archiac). Cotteau Eocène moyen
3 – 9. *S.* ——— *biarritzensis*, Cotteau. Eocène sup



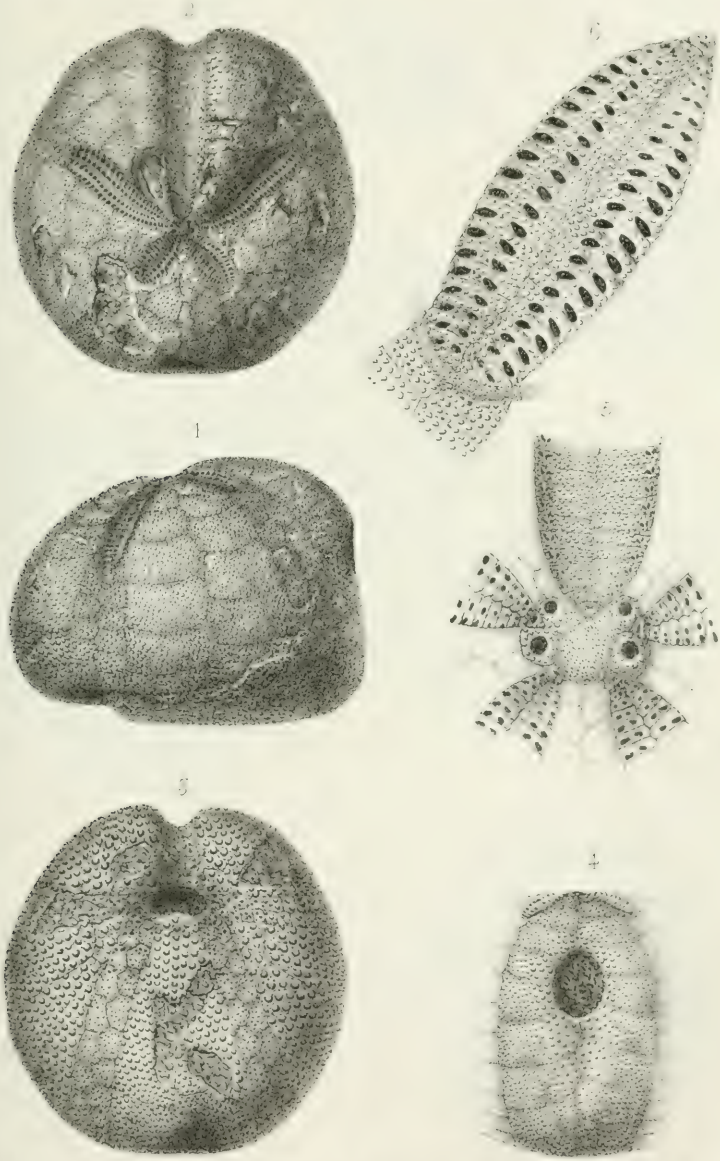
Humbert lith. — G. Masson Éditeur — Imp. Becquet fr. Paris

1–3. Schizaster alaxensis Cotteau Eocène moyen.
4–7. S. ——— Rousseli ——— ———

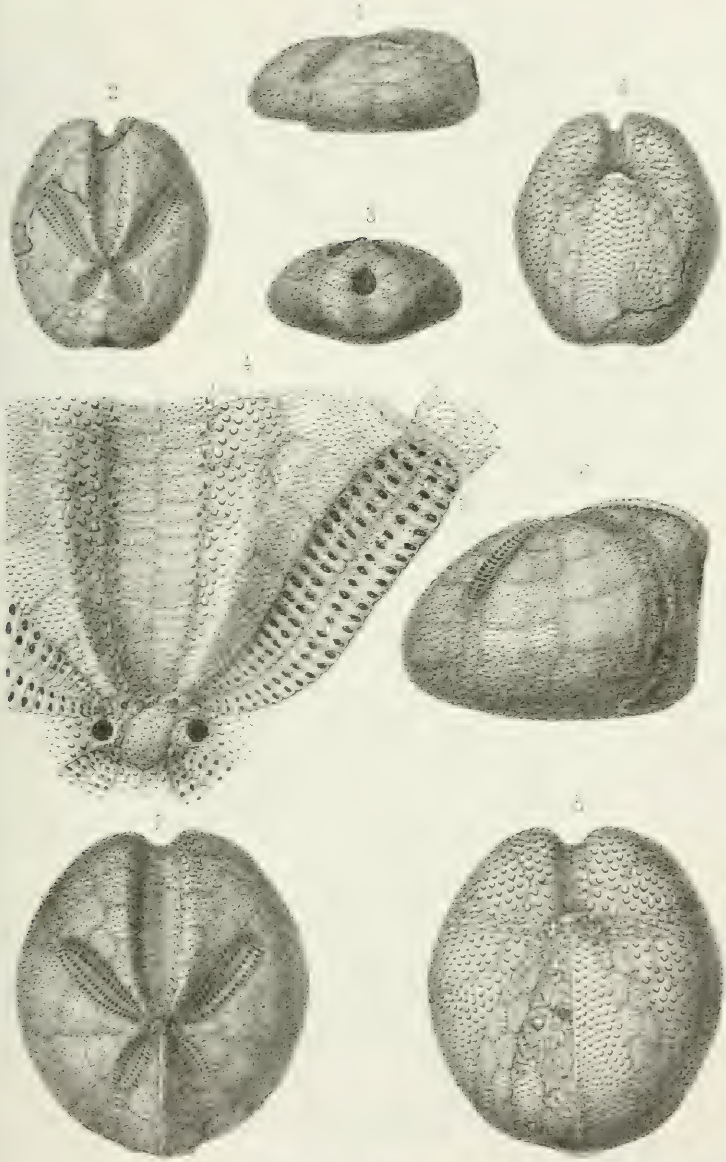


Imp. Becquet fr. Paris.

Schizaster Rousseli, Cotteau. Eocène moyen.

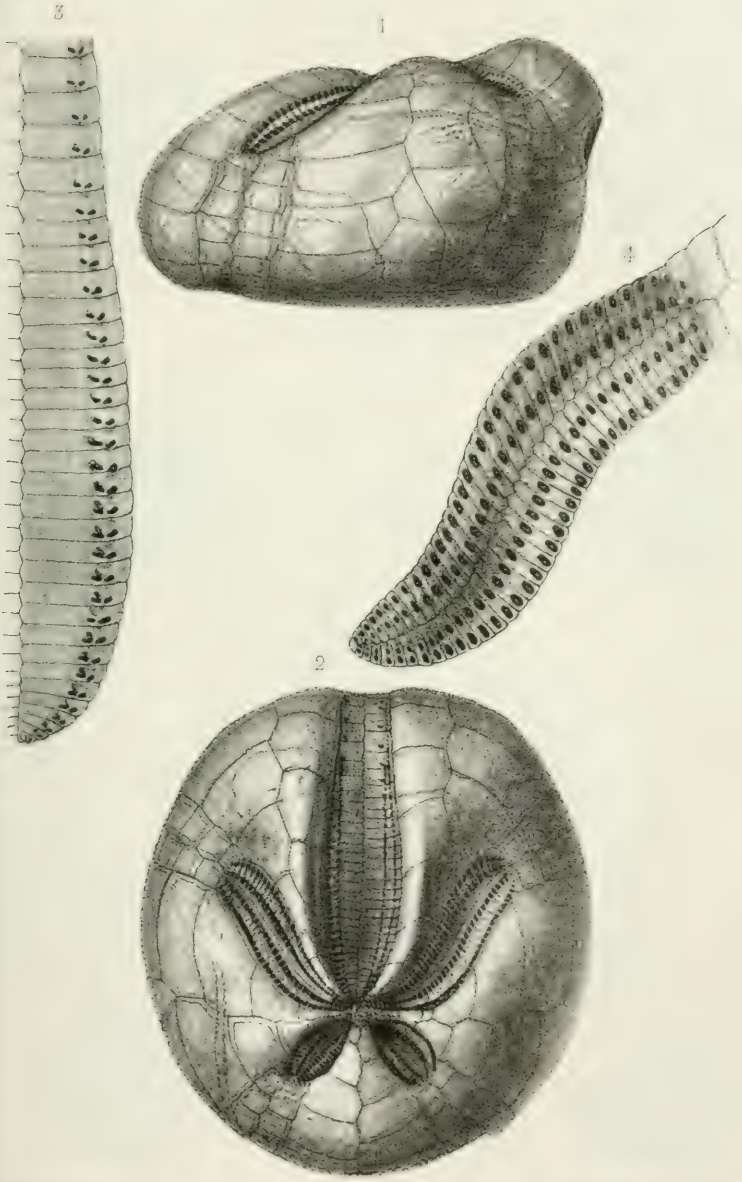


Schizaster obesus (Leymerie), Cotteau. Eocène moyen



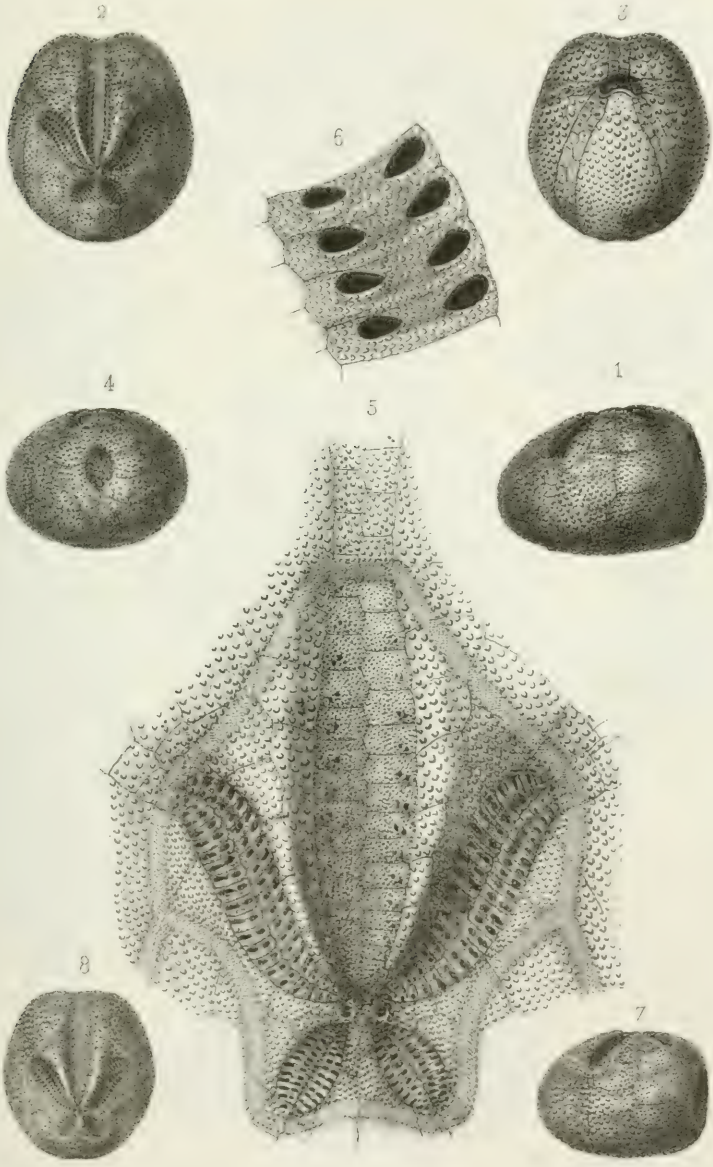
Humbert lith.

1 _ 5. *Schizaster pyrenaicus*, Munier-Chalmas, Eocène.
6 _ 8. *S.* ______ *baionnensis*, Cotteau ______



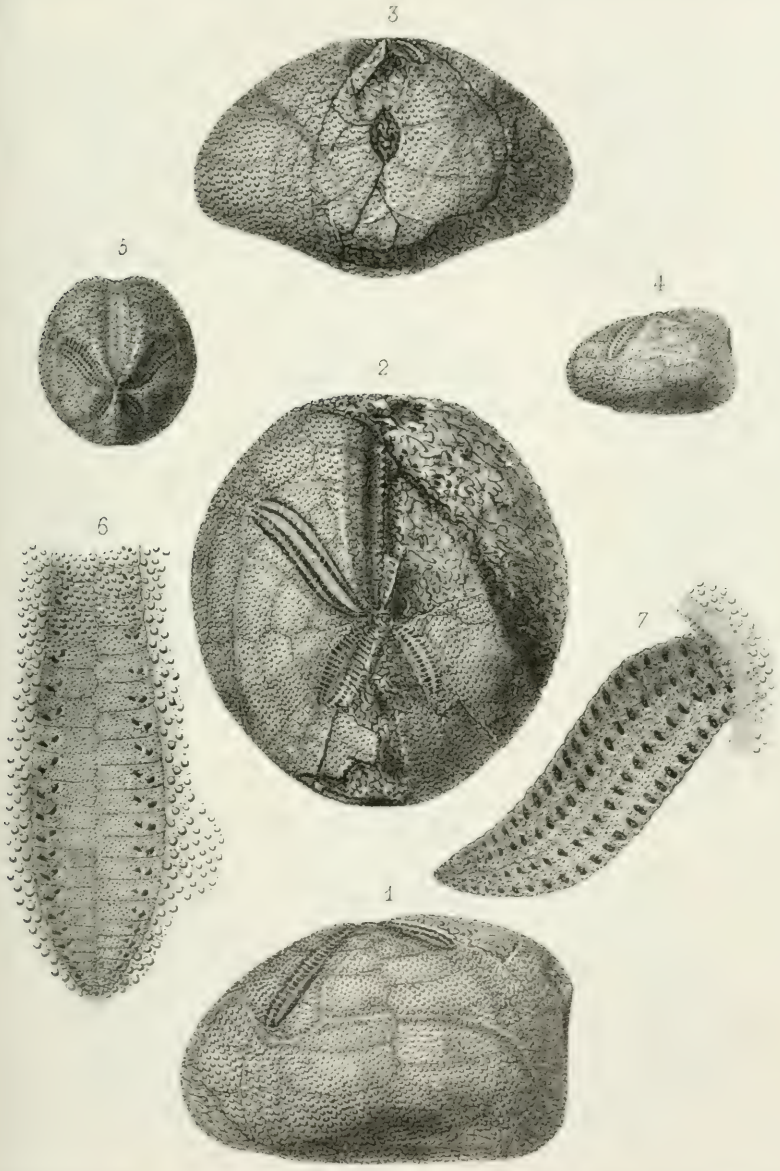
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Par.*

Schizaster latus, *Desor.* *Eocène moyen.*



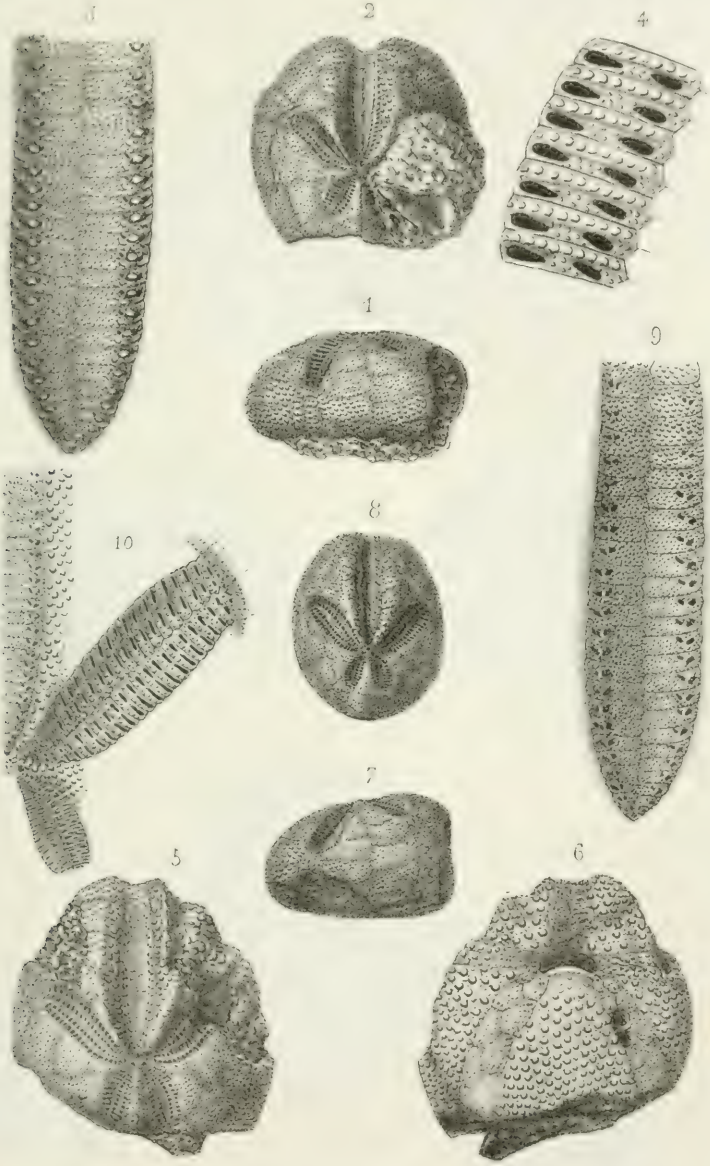
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Schizaster globulus, Dames. Eocène moyen.



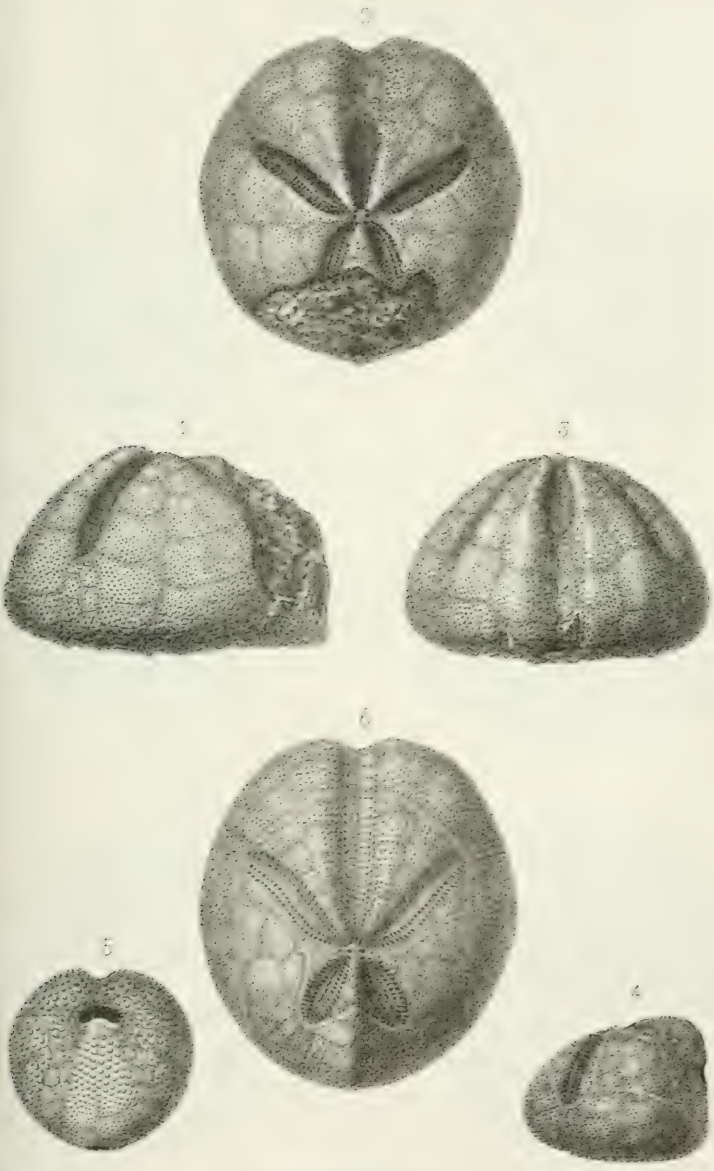
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr.*

1–3. Schizaster Tournoueri, Cotteau. Eocène moyen
4–7. S. ——— Michelini, ——— ———



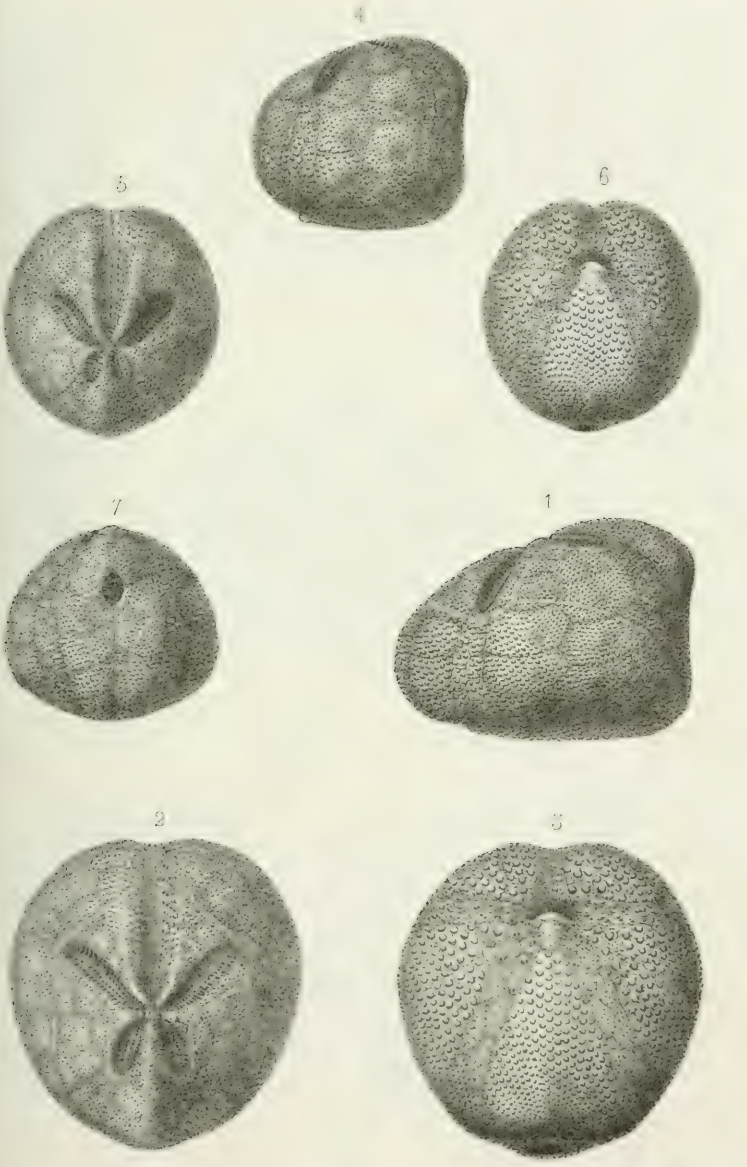
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

1 – 6. Schizaster Janeti, Cotteau. Eocène moyen.
7 – 10. S. ——— Deshayesi, ——— ——— ———



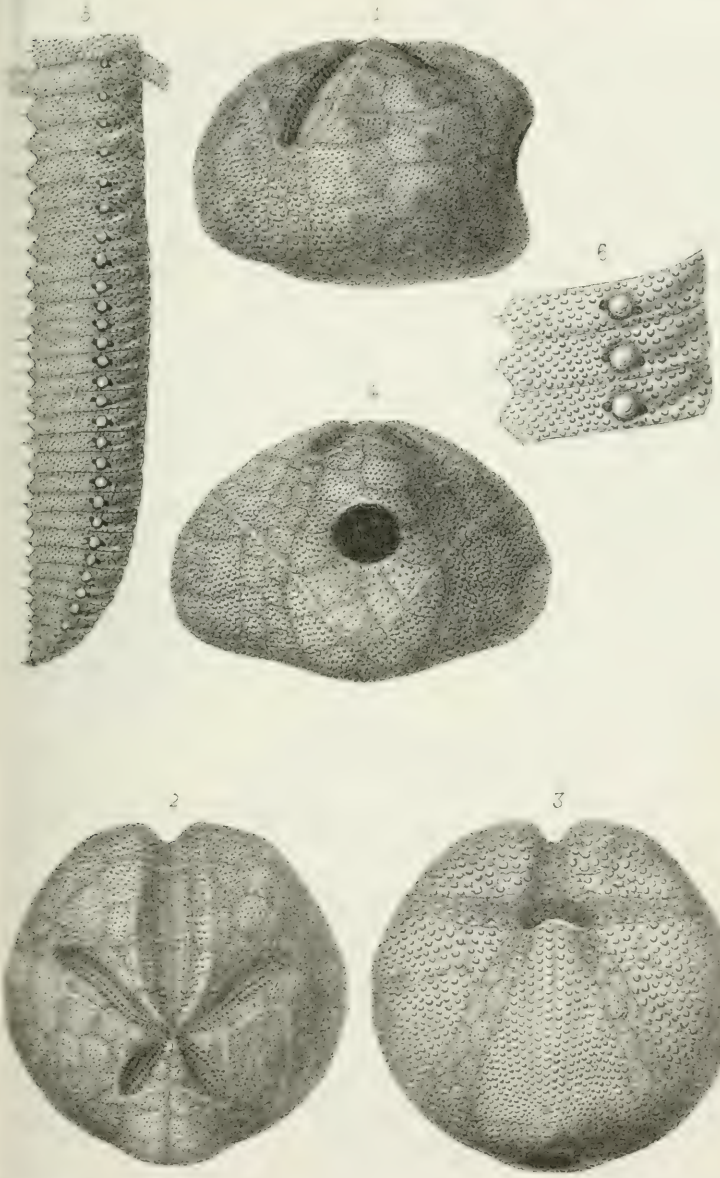
Humbert lith. G. Masson Editeur. Imp. Becquet fr. Paris.

1_3. *Schizaster Velaini*, Cotteau. Eocène moyen.
4_6. *S.* _____ *acuminatus* (Goldfuss) Agassiz _____



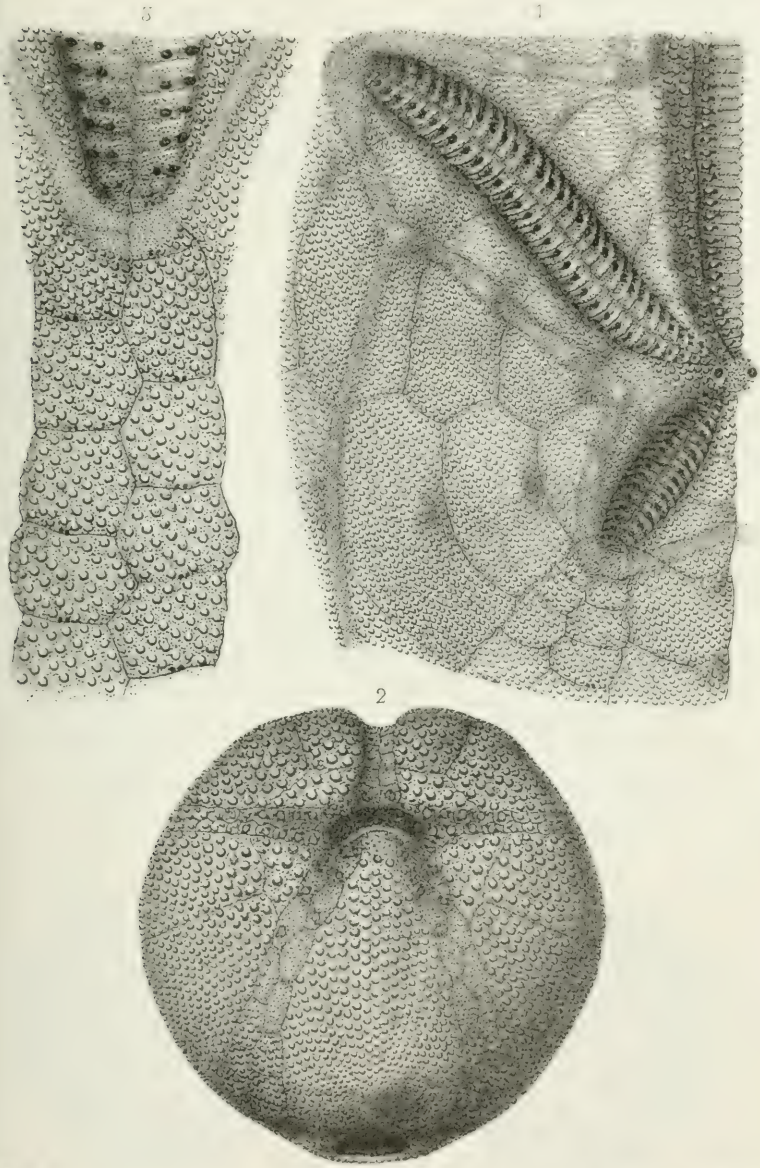
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Schizaster Leymerici, Cotteau. Eocène sup.



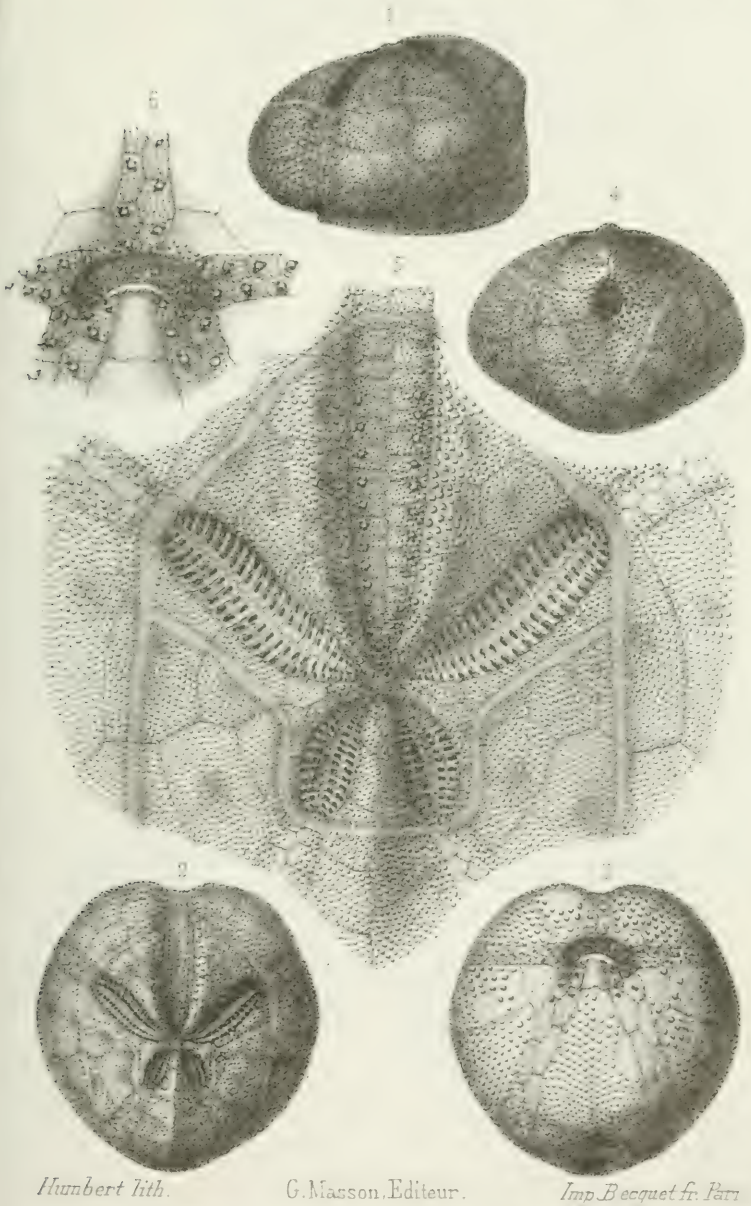
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Schizaster ambulacrum (Deshayes), Agassiz. Eocène moy.



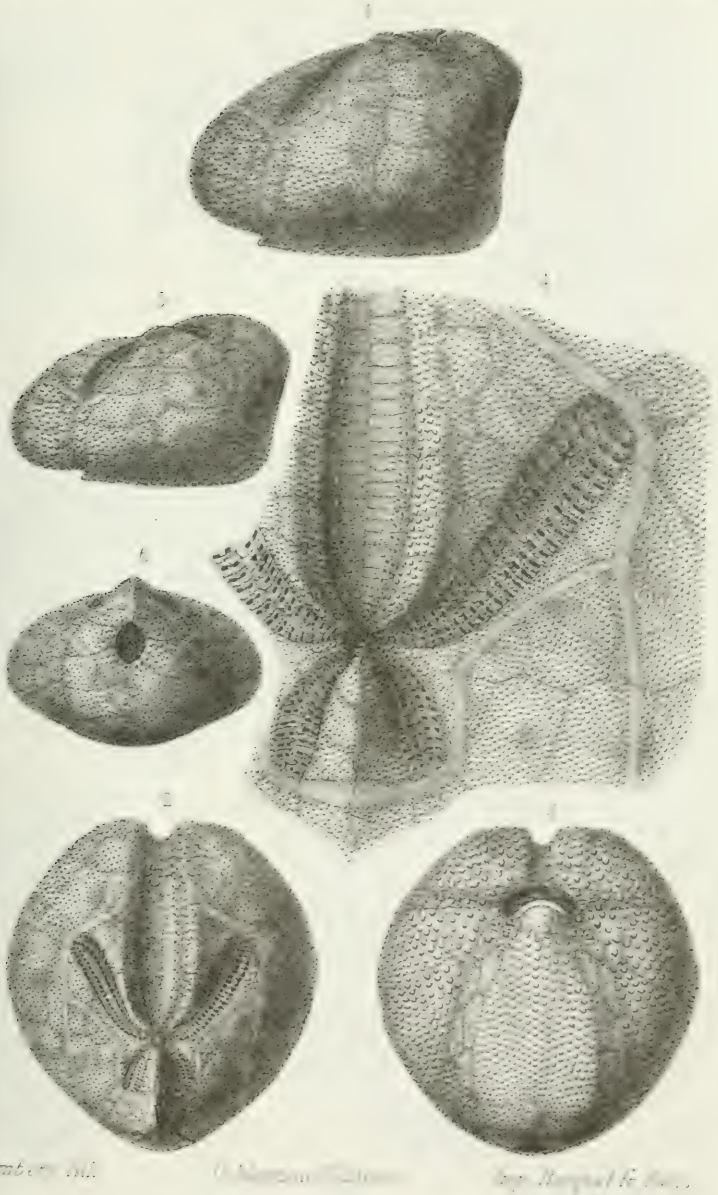
Humbert lith. G. Masson, Editeur Imp. Becquet fr. Paris

Schizaster ambulacrum (Deshayes), Agassiz. Eocène sup.

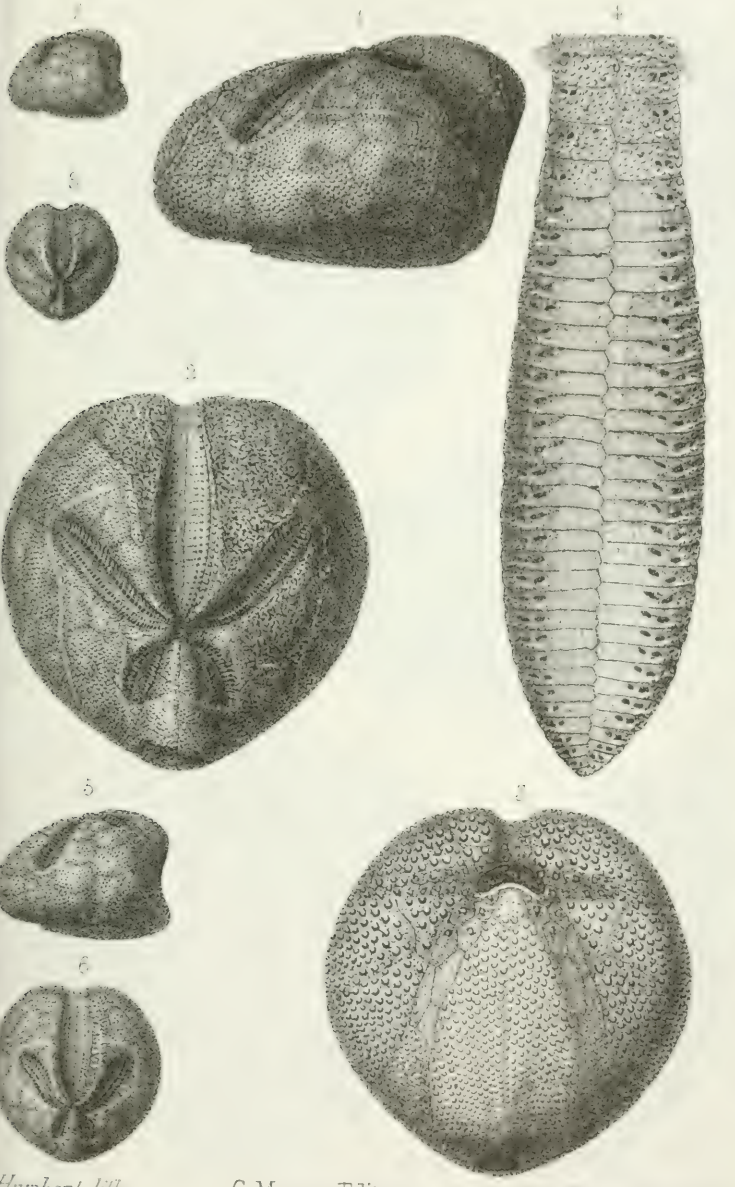


Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Schizaster Delbosi, Cotteau. Eocène sup.

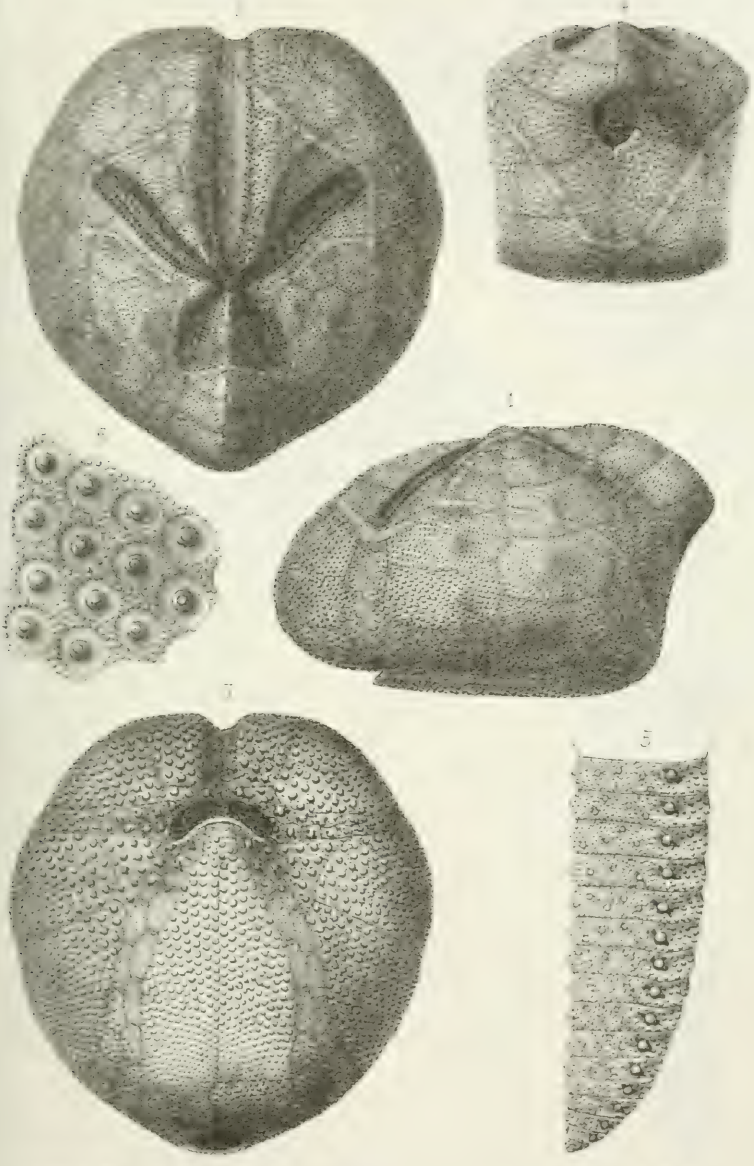


Schizaster vicinalis, Agassiz. Eocène sup.



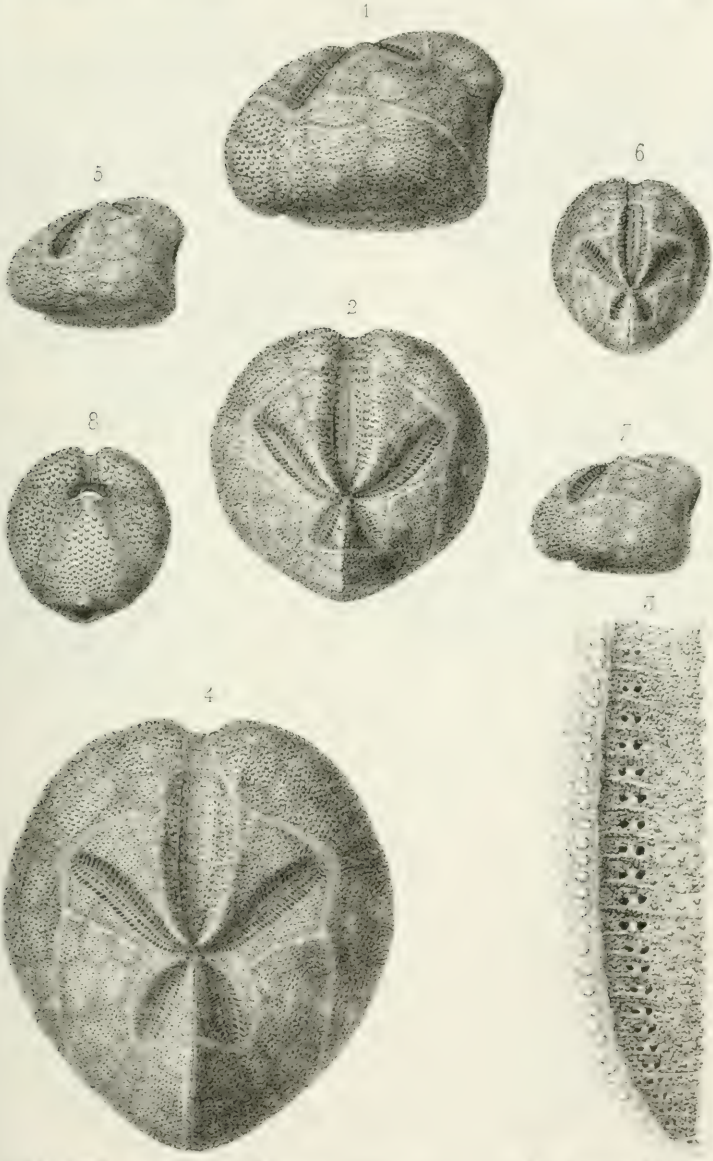
Humbert lith. G. Masson, Éditeur Imp. Becquet fr. Paris.

Schizaster vicinalis, Agassiz. Eocène sup.



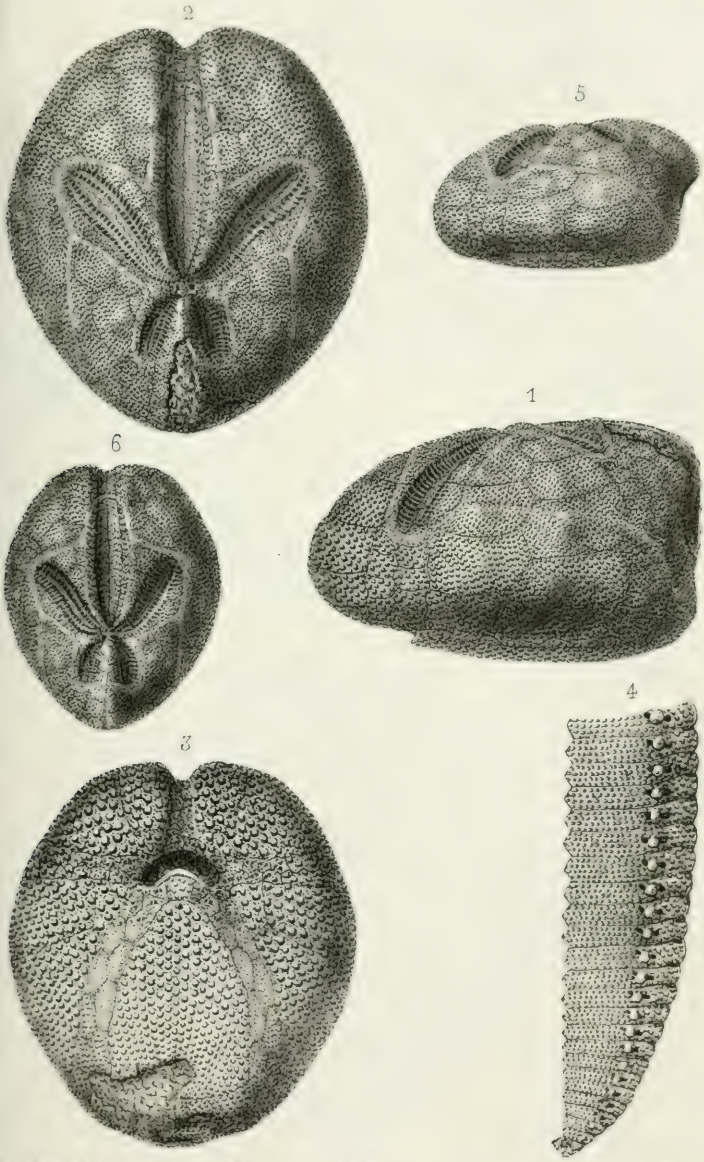
[illegible] del. G. Masson. Éditeur. Imp. [illegible] fr. Paris

Schizaster rimosus, Agassiz. Éocène sup.



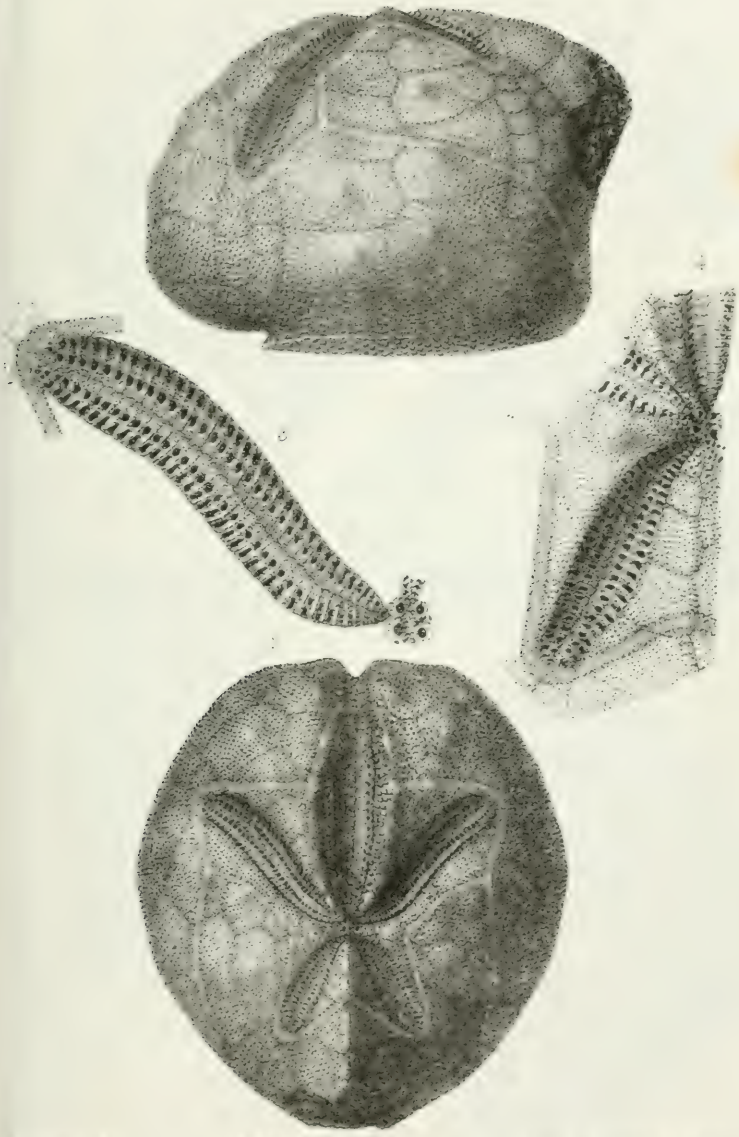
G. Masson, Editeur

Schizaster rimosus, Agassiz. Eocène sup.



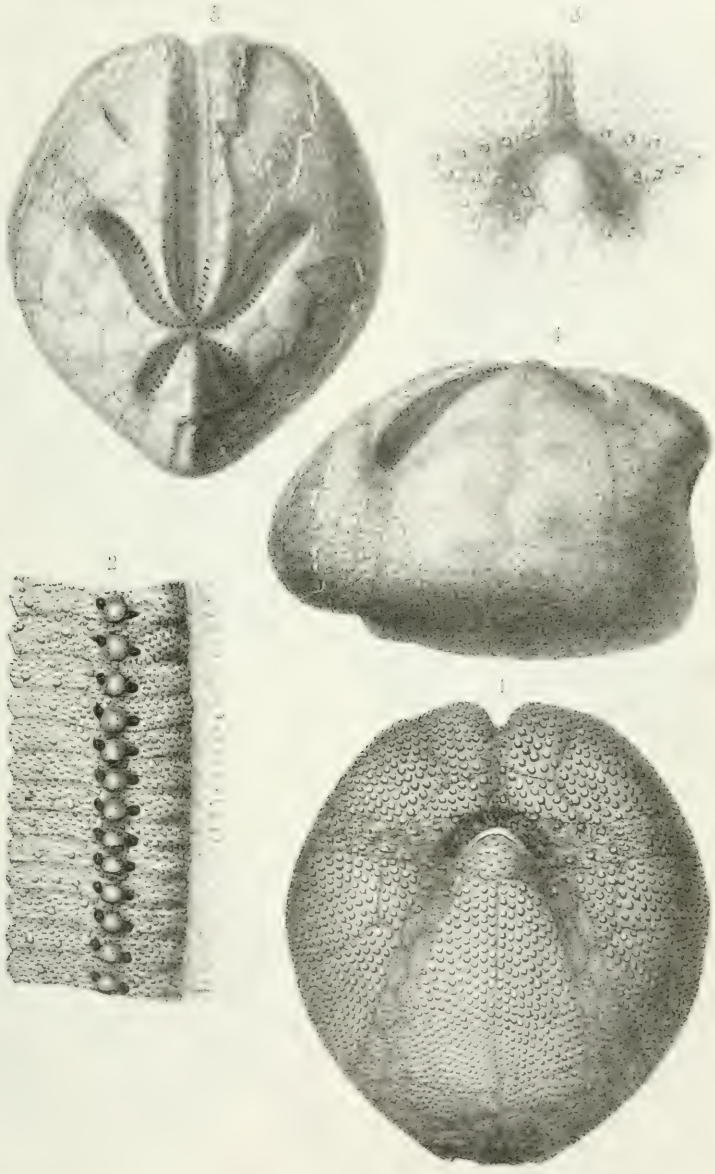
G. Masson Éditeur

Schizaster Degrangei, Cotteau. Eocène sup.



Humbert lith. G. Masson, Éditeur Imp. Becquet fr. Paris

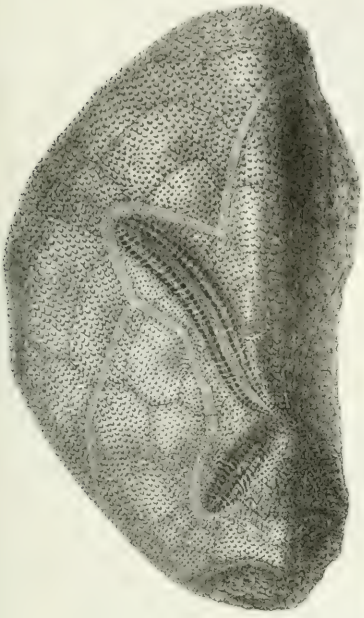
Schizaster Studeri, Agassiz. Eocène sup.

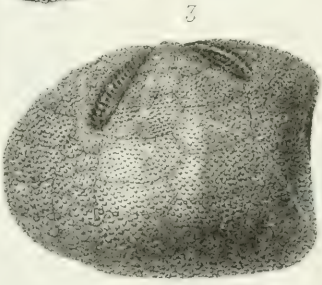


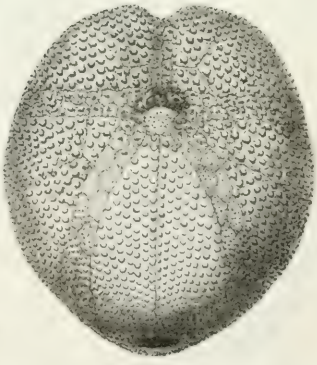
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris*

Schizaster Studeri, *Agassiz*. *Eocène sup.*

T. tertiaire (Eocène.) Echinides. Pl. 105.

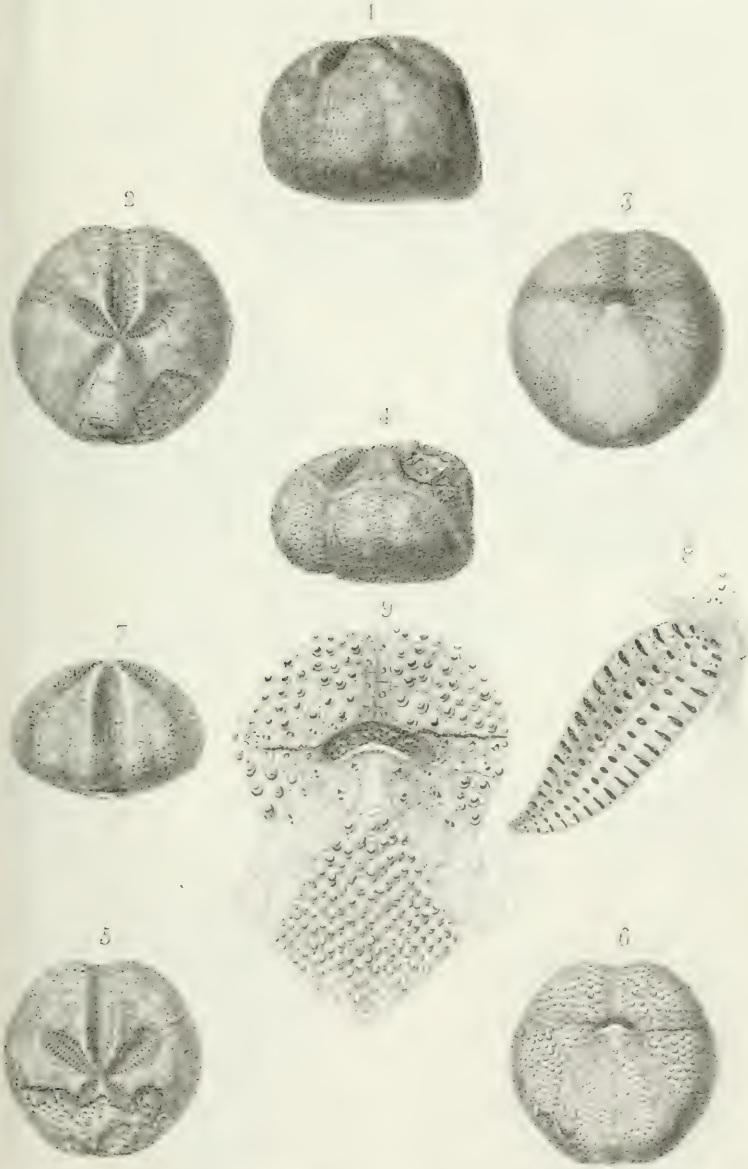






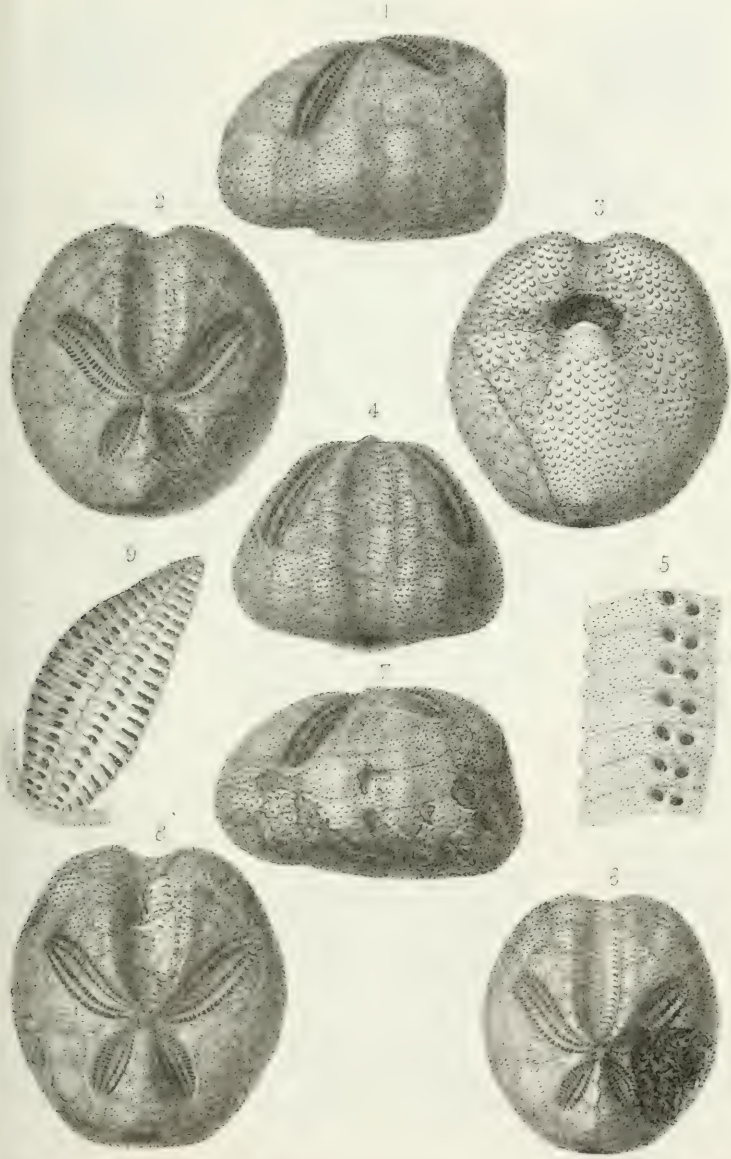
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Schizaster Studeri, *Agassiz. Eocène sup.*



Tumbert lith. G. Masson Editeur. Imp. Becquet fr. Paris.

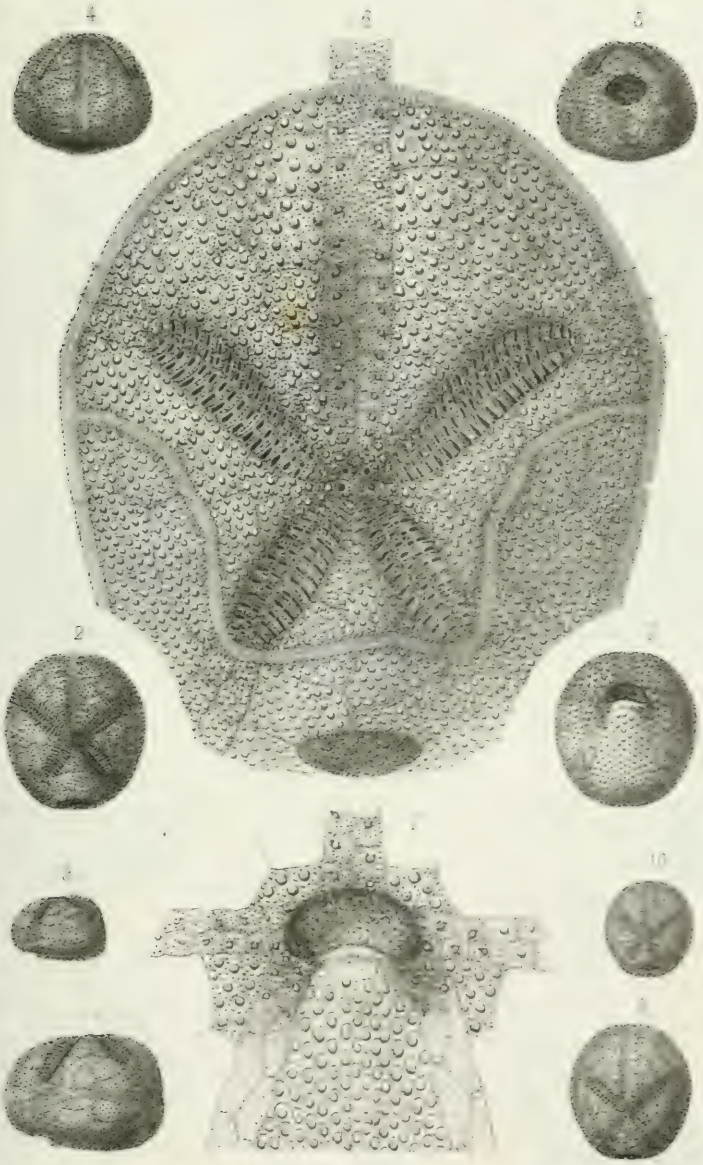
Schizaster forcatus. Agassiz. Eocene sup.



Humbert lith. G. Masson, Editeur *Imp. Lemercier et Cie Paris*

1 – 6. Schizaster Meslei, Peron et Gauthier. Eocène sup.

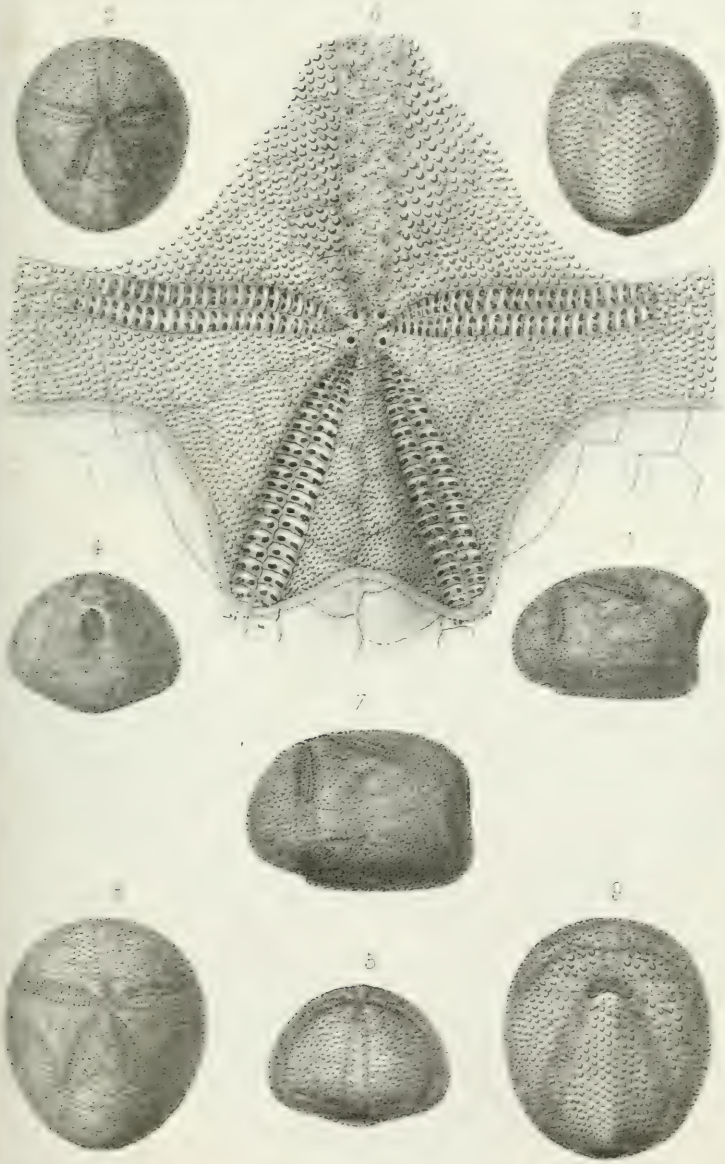
7 – 9. S. _____ concinnus.



Anisaster Souverbiei (Cotteau), Pomel. Eocène moy.

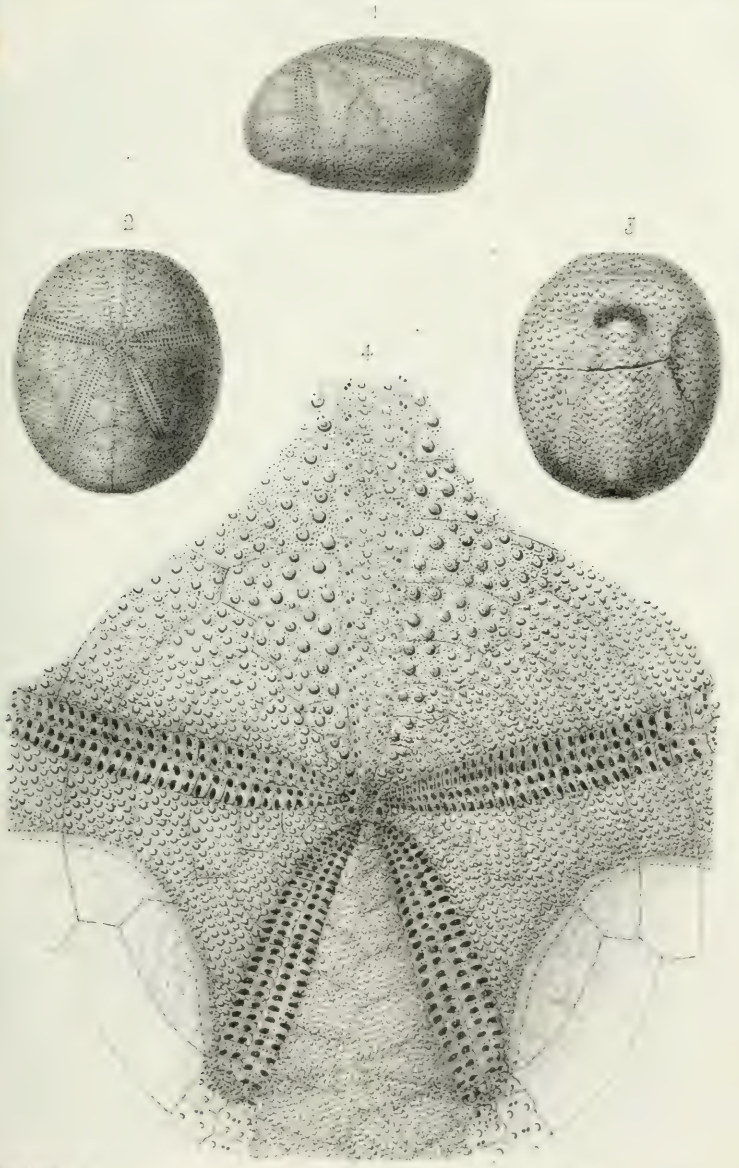
Humbert lith. G. Masson Editeur. Imp. Becquet fr. Paris.

1 – 9. Prenaster alpinus, Desor. Eocène moyen.
10 – 12. P._____ subacutus (d'Archiac), Desor. Eocène sup.



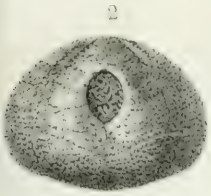
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

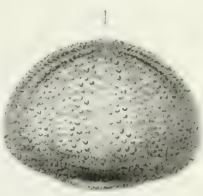
Prenaster Jutieri (Schlumberger), Descr. Eocène sup.

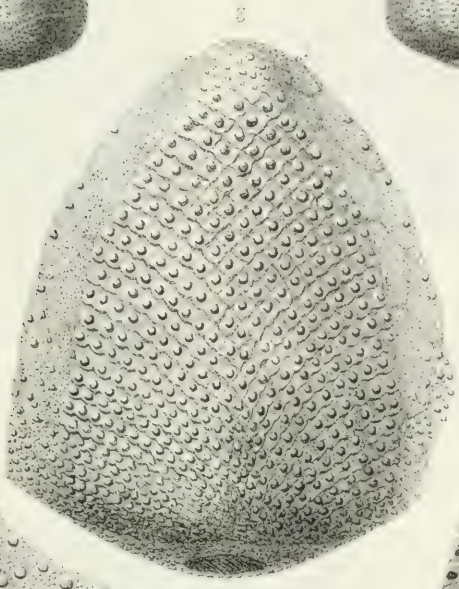


Humbert lith. G. Masson, Editeur Imp. Becquet fr. Paris.

Prenaster Desori, Cotteau. Eocène moyen.





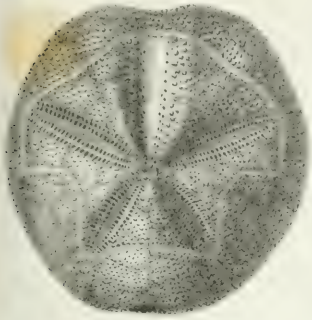


Humbert lith. G. Masson Editeur Imp. Becquet fr. Paris.

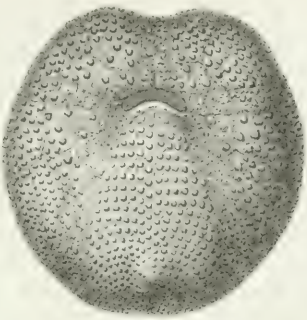
1 — 5. Prenaster Desori, Calcaire. Eocène moy.

6 et 7. P._____ Blanchetti, Calcaire. Eocène sup.

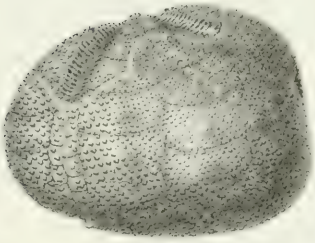
2



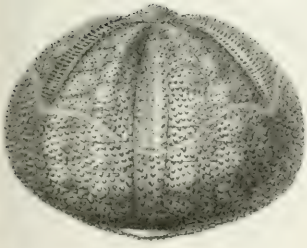
3



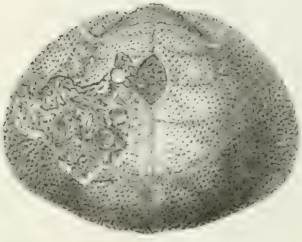
1



4

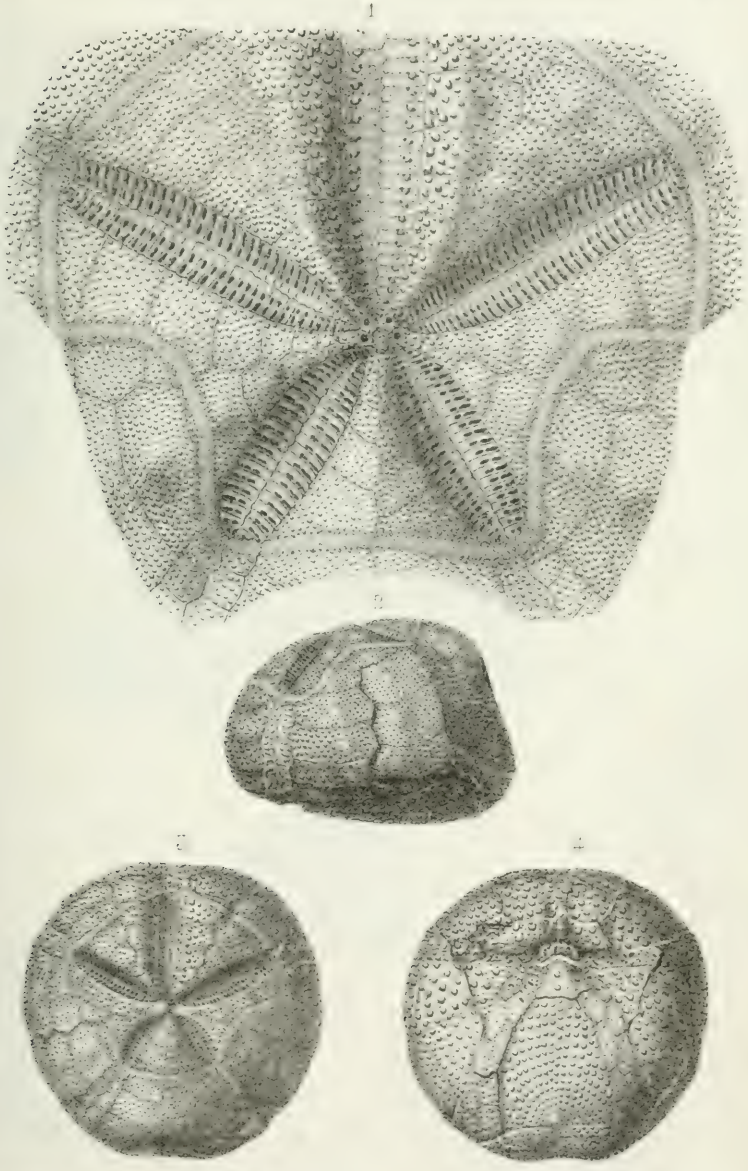


5



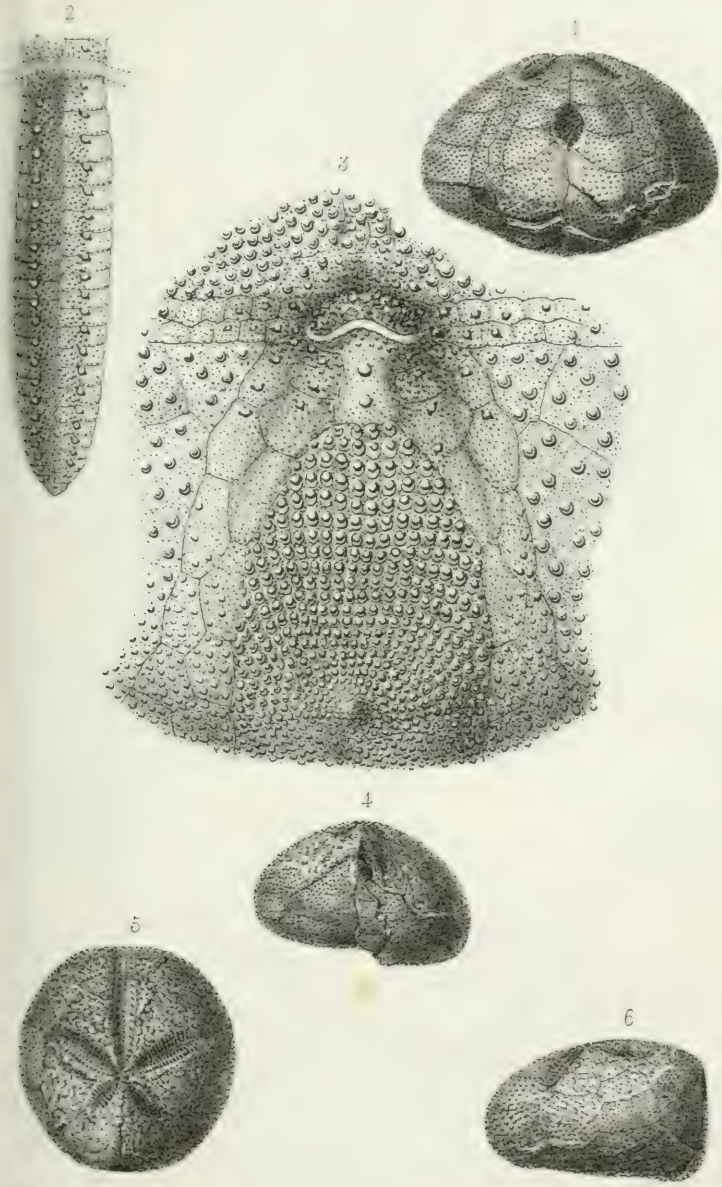
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

Trachyaster Heberti, Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

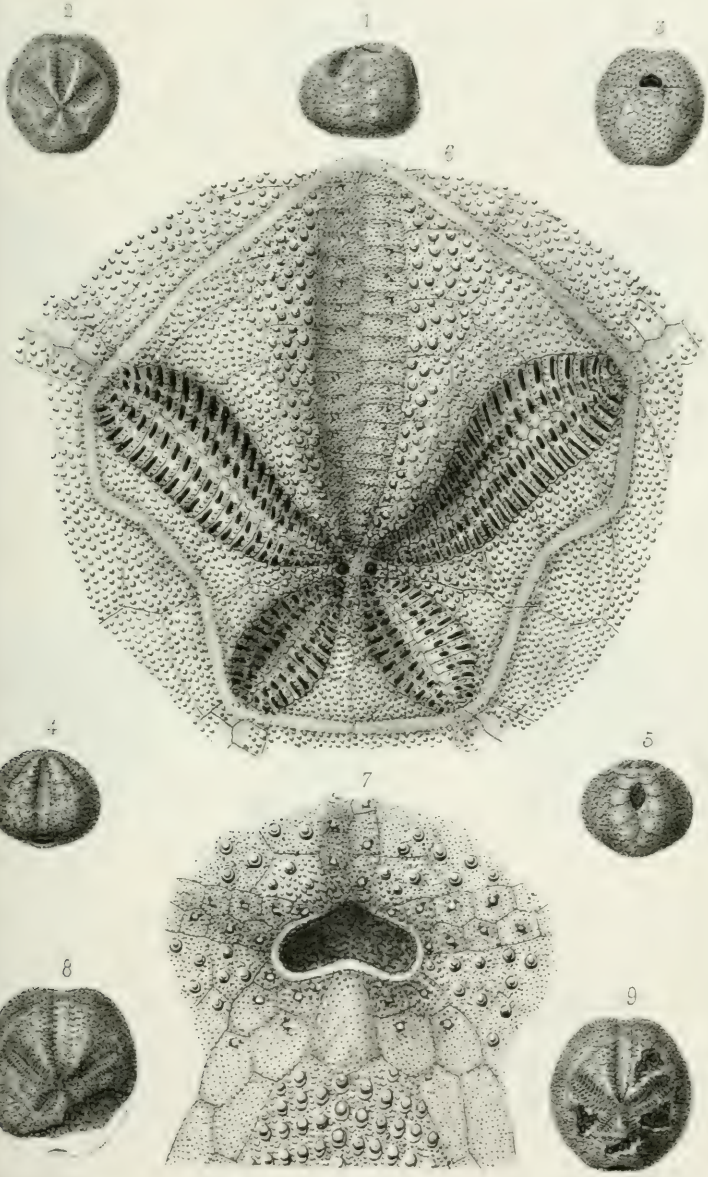
1. *Trachyaster Heberti*, Cotteau. Eocène moyen.
2–4. *T.* _____ *Raulini*, Cotteau. Eocène sup.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

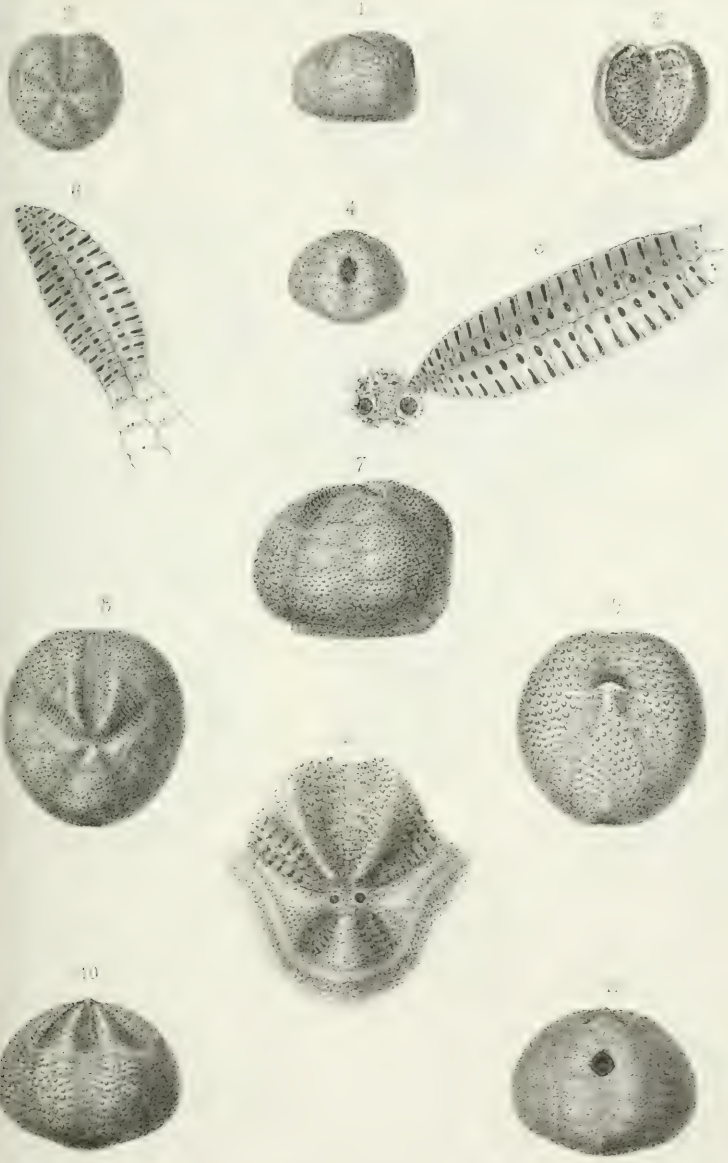
1 – 3. Trachyaster Raulini, Cotteau. Eocène sup.

4 – 7. Ditremaster Marici (Tallavignes), Cotteau. Eocène moyen.



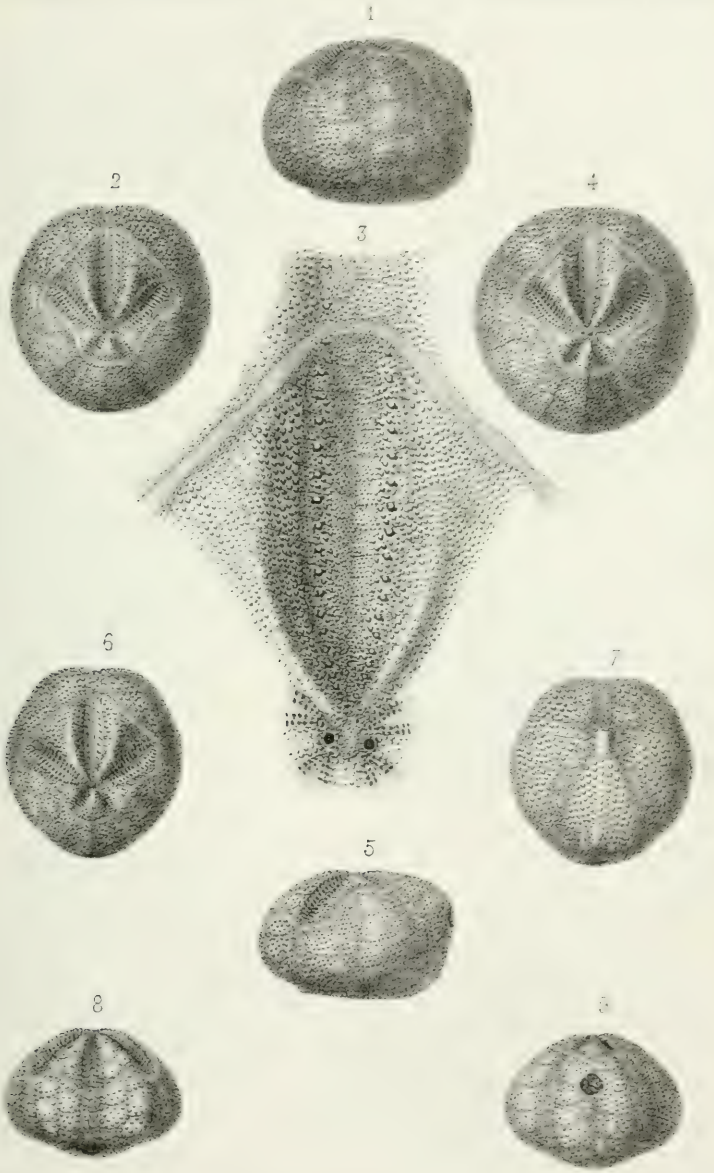
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Ditremaster Gregoirei Cotteau. Eocène moyen.



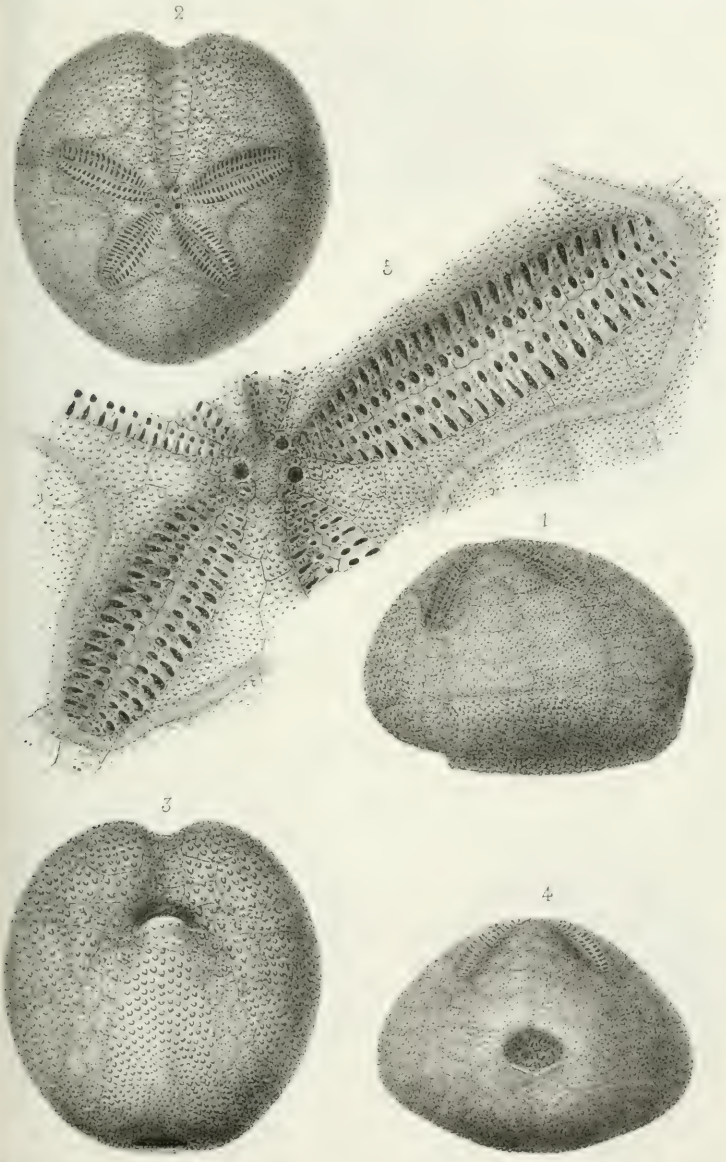
Humbert lith G. Masson, Editeur. Imp. Becquet fr. Paris.

1 – 6 *Ditremaster Passyi* (Sorignet), Cotteau Eocène moyen.
7 – 12. *D.* ——— *nux* (Desor), Munier-Chalmas. Eocène sup.



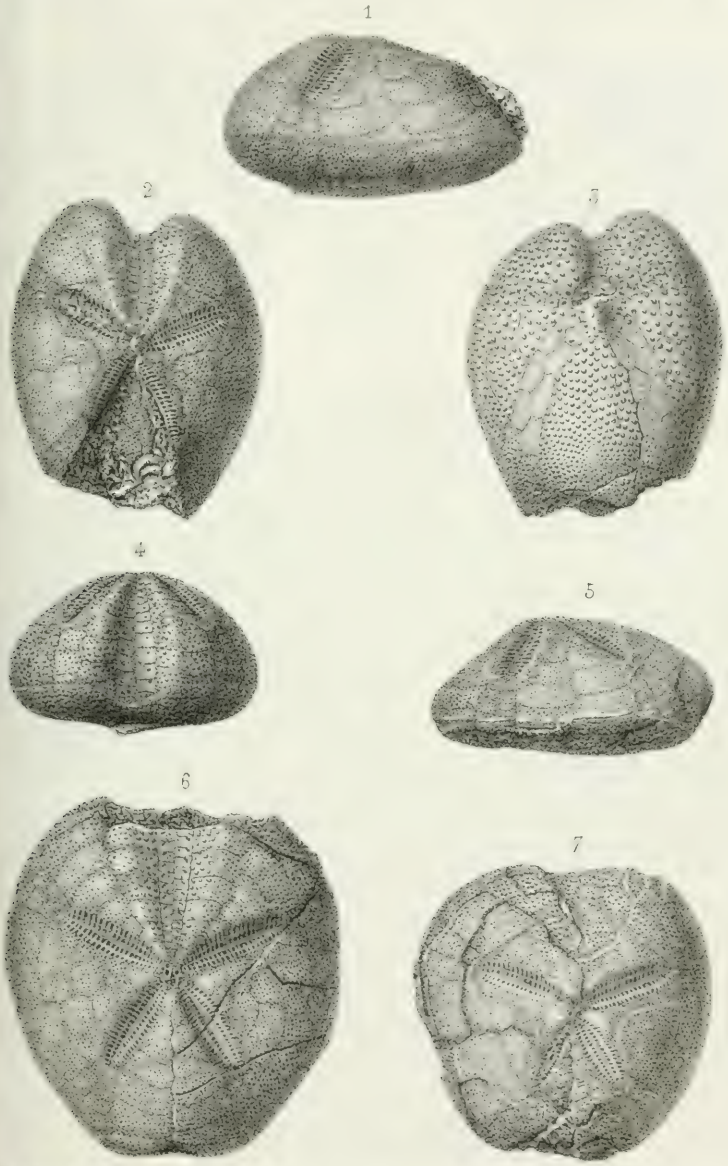
Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

1–4. Ditremaster nux (Desor), Munier-Chalmas. Eocène sup.
5–9. D._____ Degrangei, Cotteau. Eocène sup.



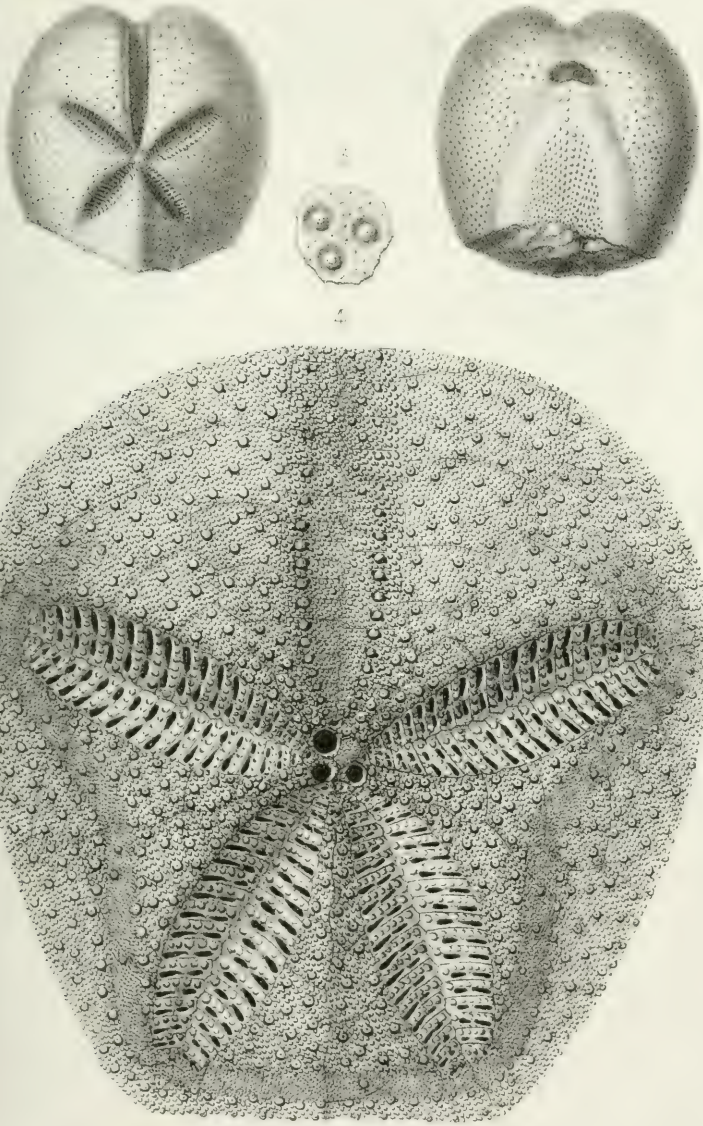
Humbert lith. G. Masson. Editeur. Imp. Becquet fc. Paris.

Pericosmus bastennesensis (Tournouër), Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur Imp. Becquet fr. Paris.

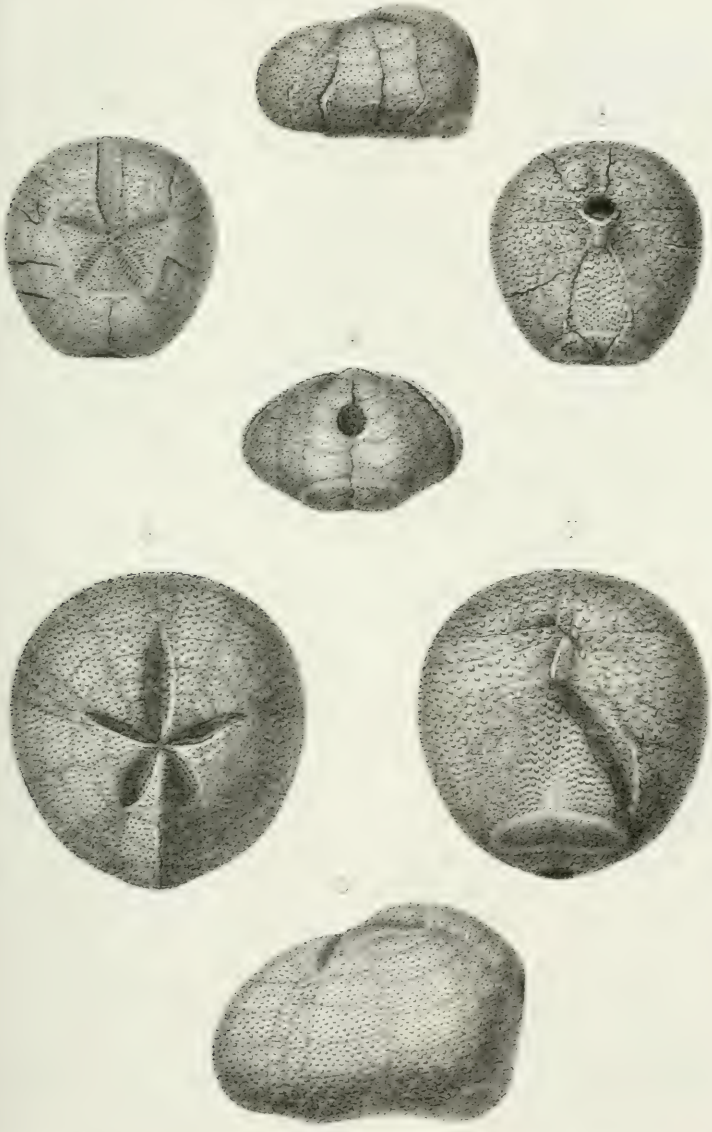
1 – 4. *Pericosmus Bouillei*, Cotteau. Eocène sup.
5 – 7. *P.* _____ *Pellati*, Cotteau. _____. ____



Humbert lith G. Masson, Editeur. Imp. Becquet fr. Paris

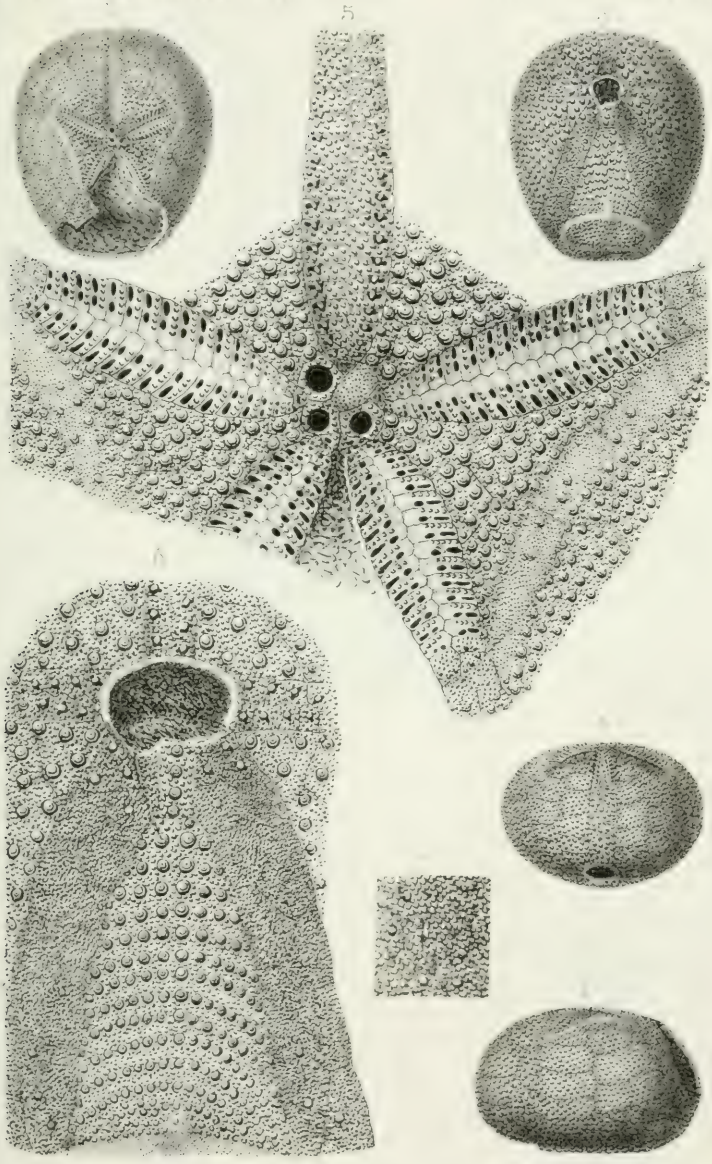
1-3 *Periosmus dilatatus* (d'Archiac), Cotteau. Eocène sup.

4. *Cyclaster declivus*, Cotteau. Eocène supérieur.

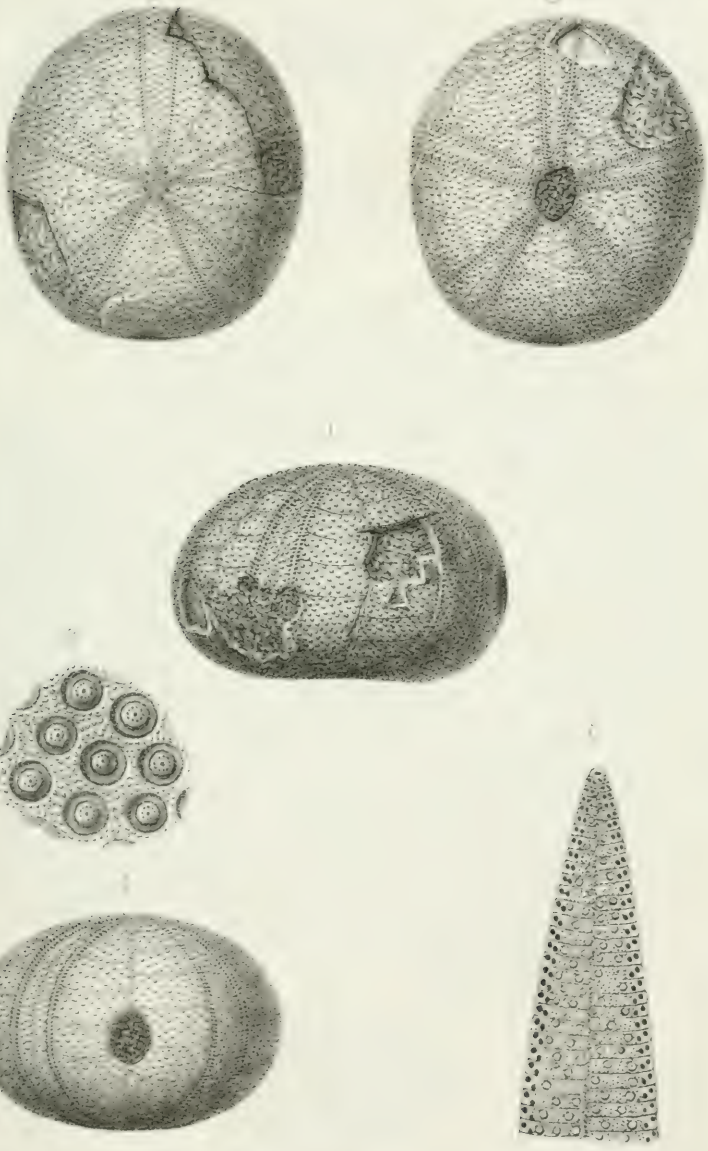


G. Masson, Editeur

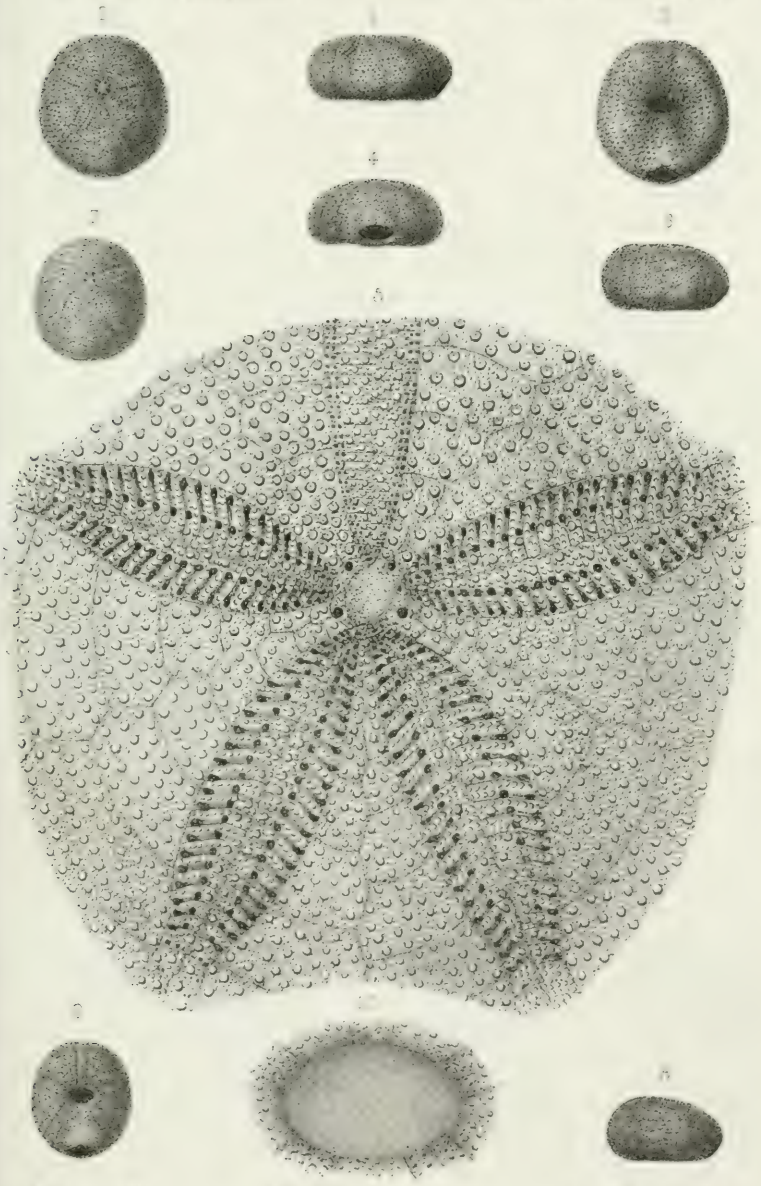
Cyclaster declivus, Cotteau. Eocène supérieur.



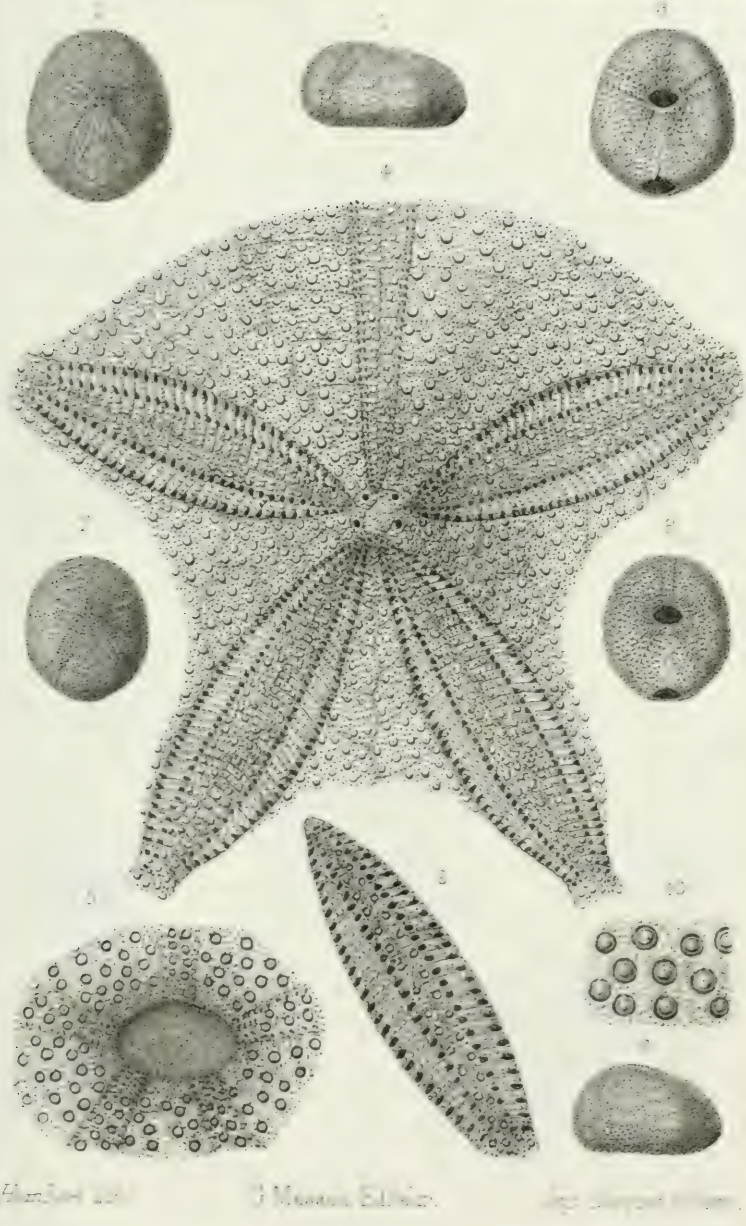
Cyclaster ovalis. Cotteau. Eocène



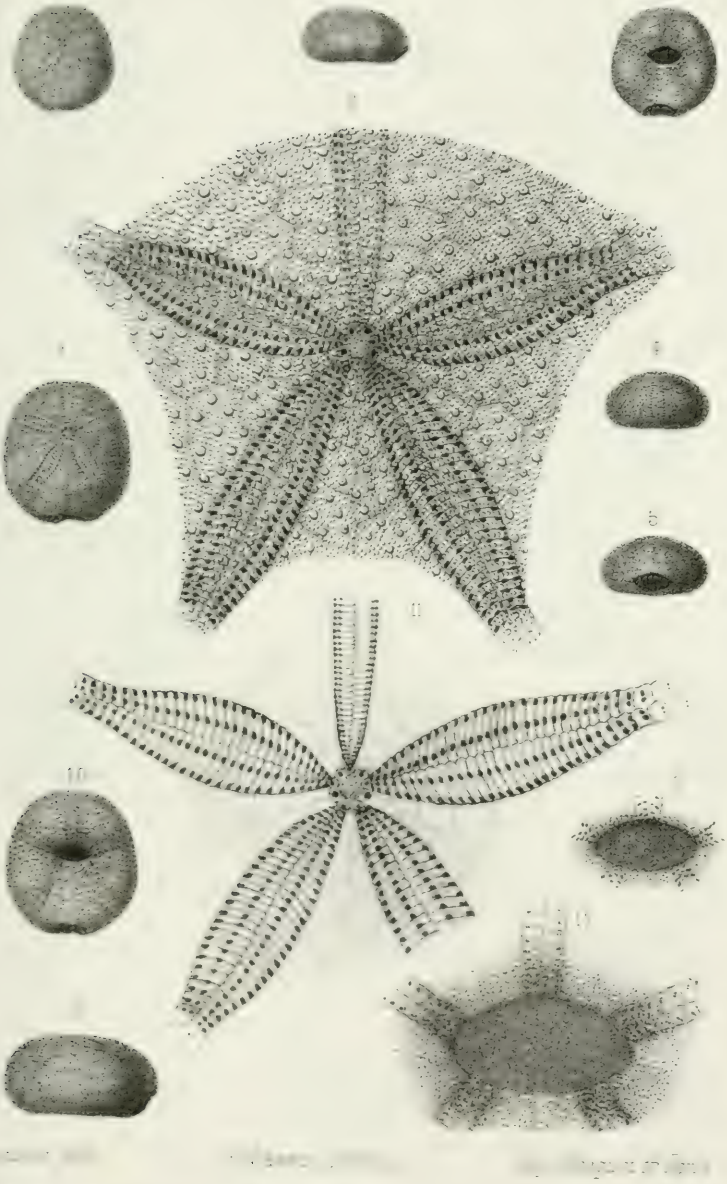
Pyrina Raulini, Cotteau. Eocène moyen.



Pseudopygaulus Tournasi, Cotteau Eocène moy

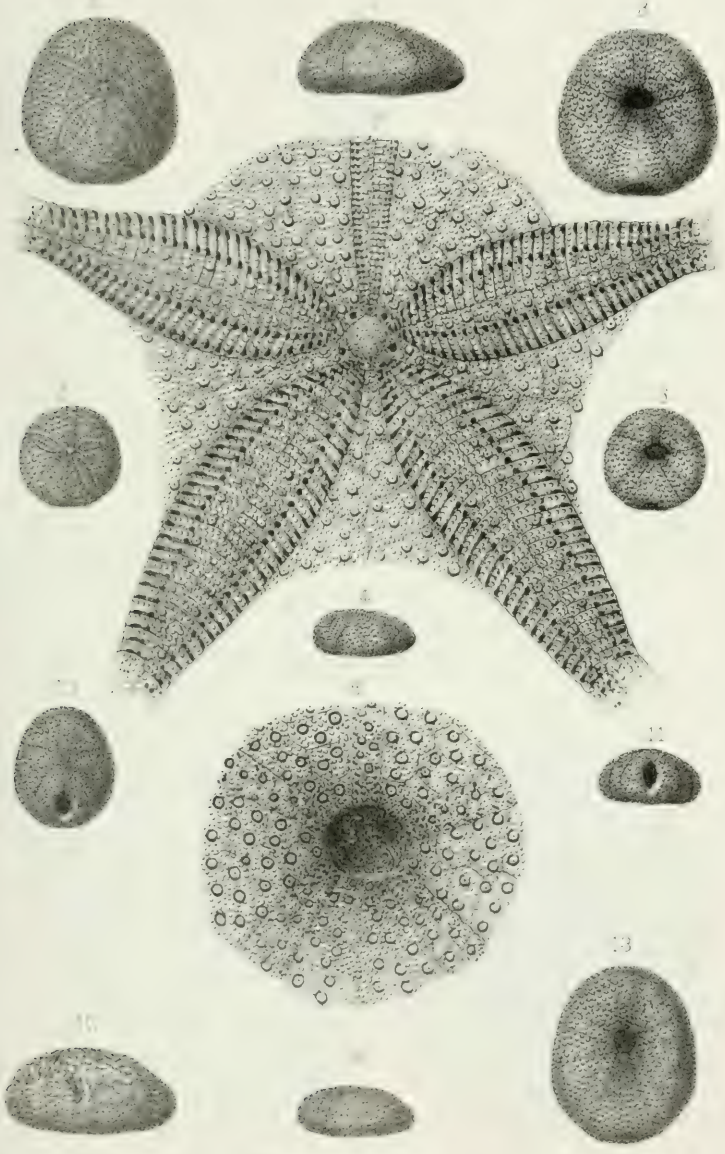


Pseudopygaulus Trigeri, Cotteau. Eocène sup.



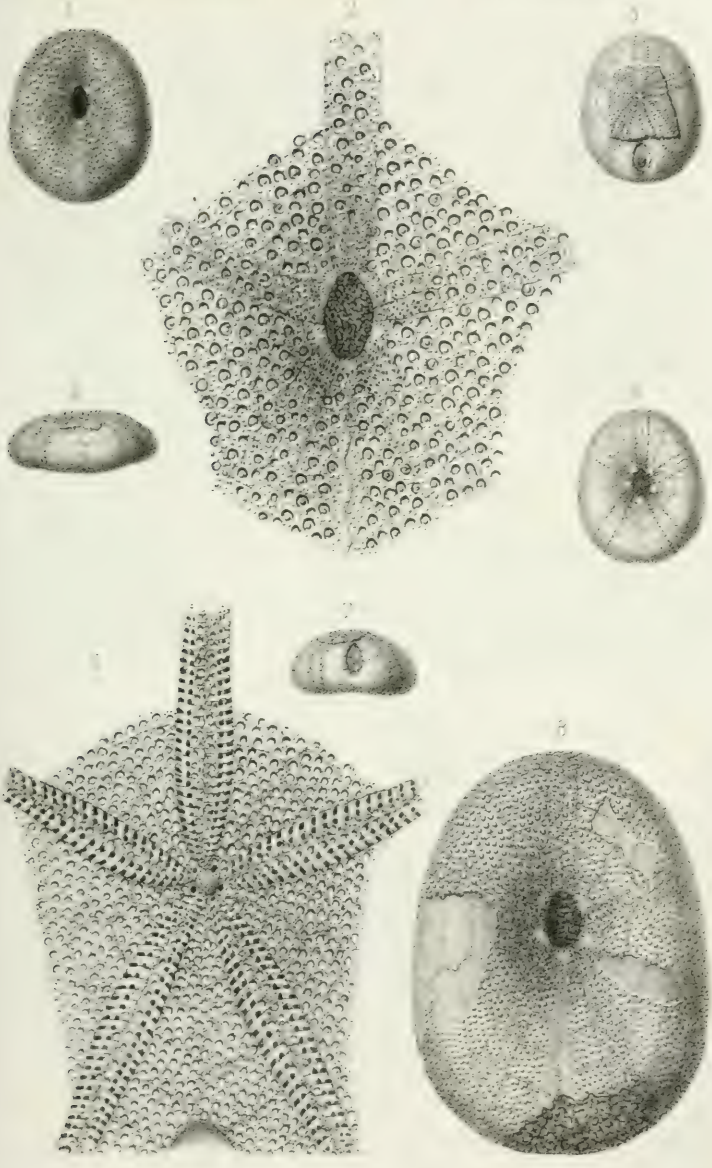
1-7 *Pseudopygaulus buccalis* Peron et Gauthier Eocène sup.

8-12 *P.* ——— *Gauthieri*, Cotteau Eocène sup

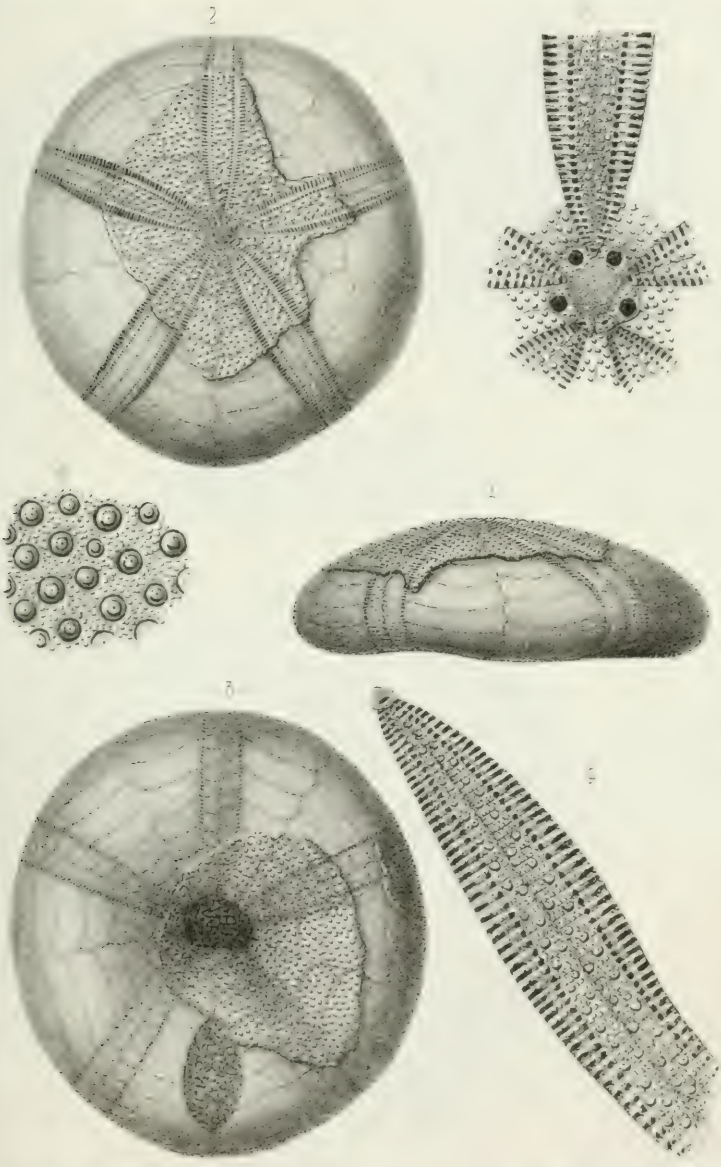


1–8. *Pseudopygaulus Manesi* Cotteau Gauthier. Eocène sup.

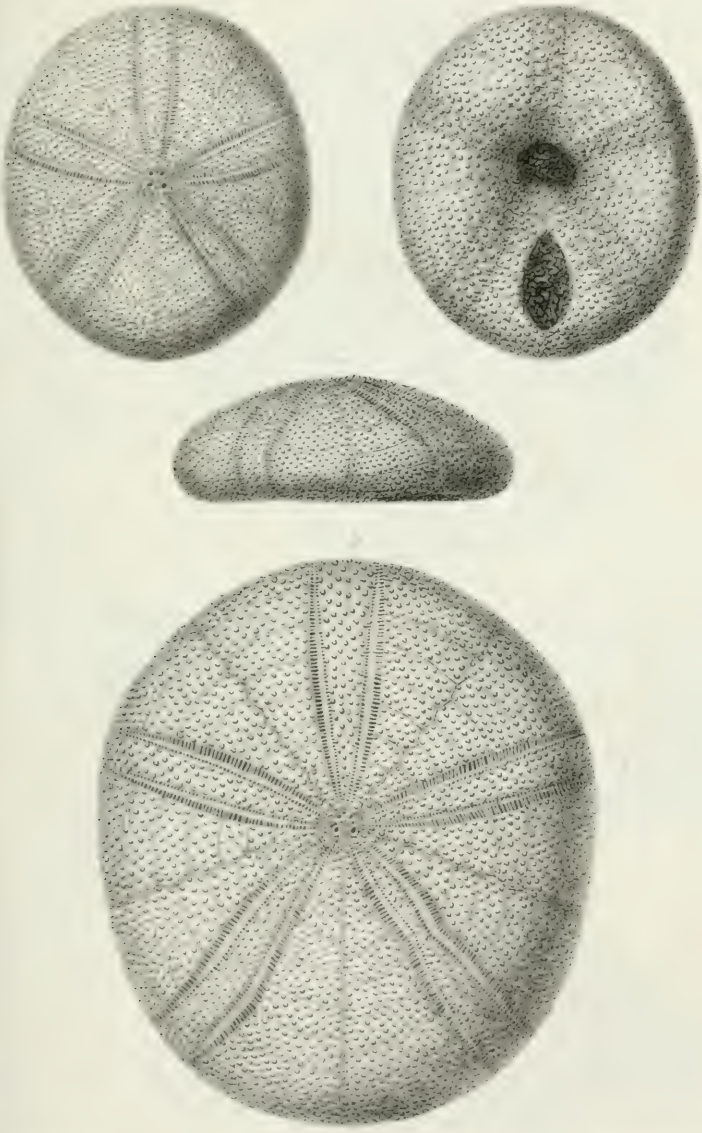
9–15. *Echinobrissus Dalonii* Cotteau Eocène moyen.



Echinobrissus Daleani, Cotteau Eocène moyen

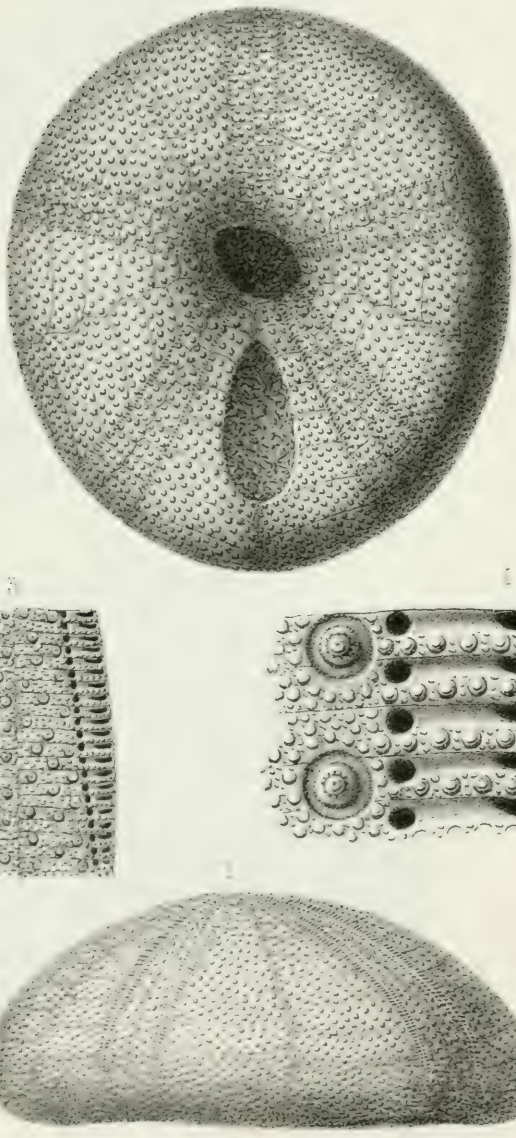


Amblypygus dilatatus, Agassiz. Craie moyenne.

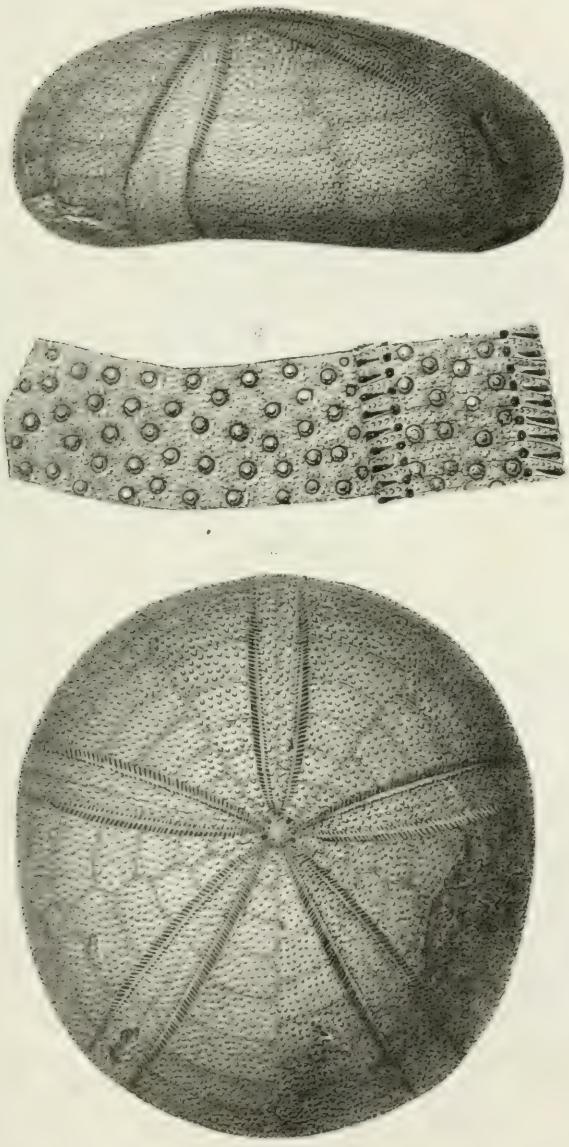


1, 2, 3 *Amblypygus dilatatus*. Agassiz. Éocène moyen.

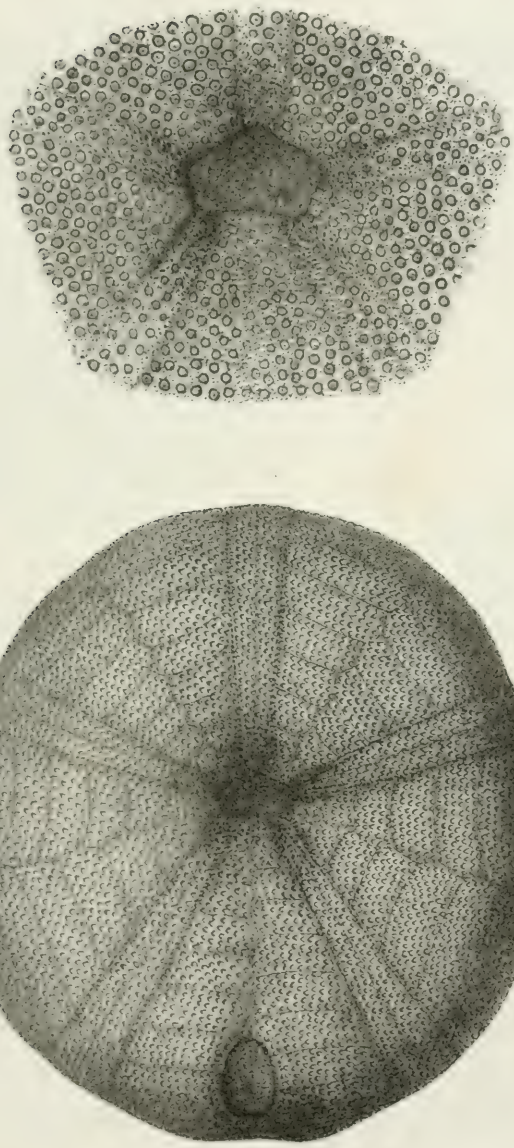
4 *A.* ——— *Pellati*. Cotteau. Éocène sup.



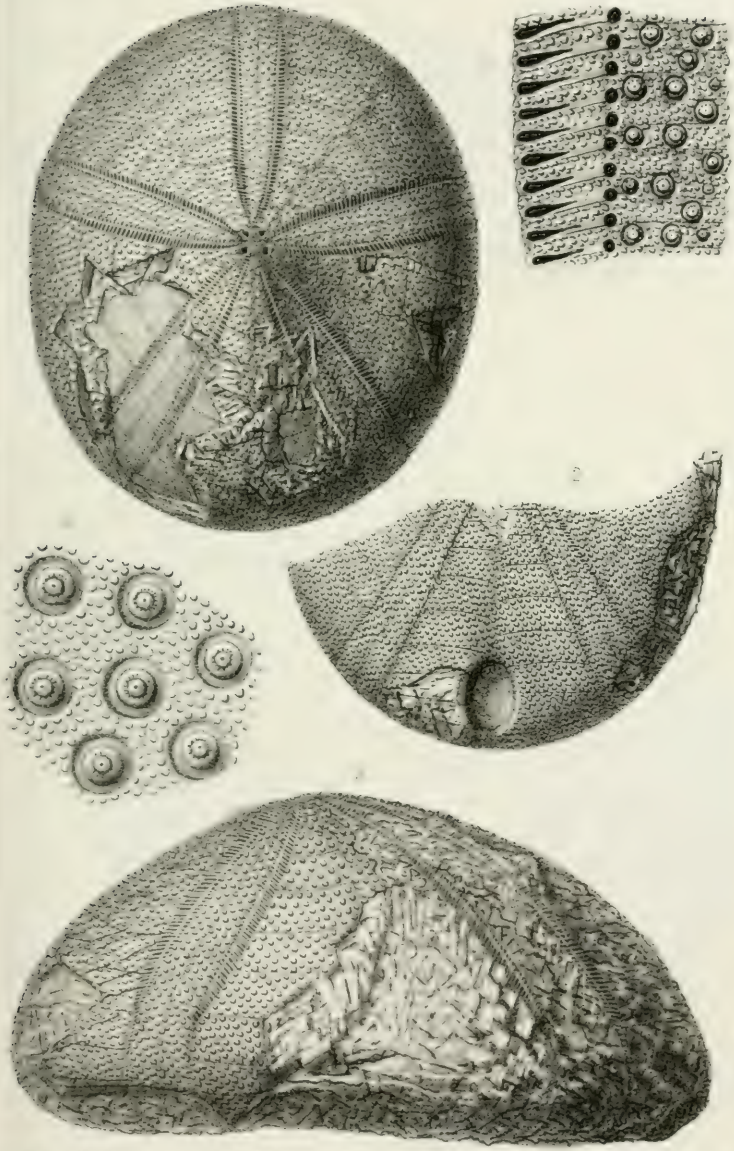
Amblypygus Pellati, Cotteau. Eocène sup.



Oriolampas Michelini (Cotteau, Munier-Chalmas. Eocène moyen.



Oriolampas Michelini (Cotteau) Munier-Chalmas. Eocène moyen



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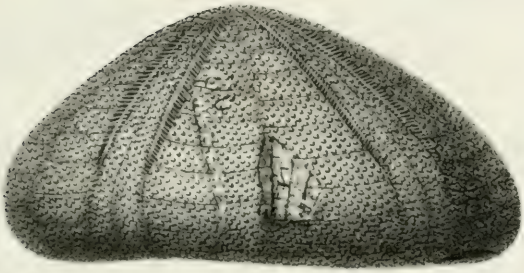
Oriolampas Michelini (Cotteau) Munier-Chalmas. Eocène moyen

1



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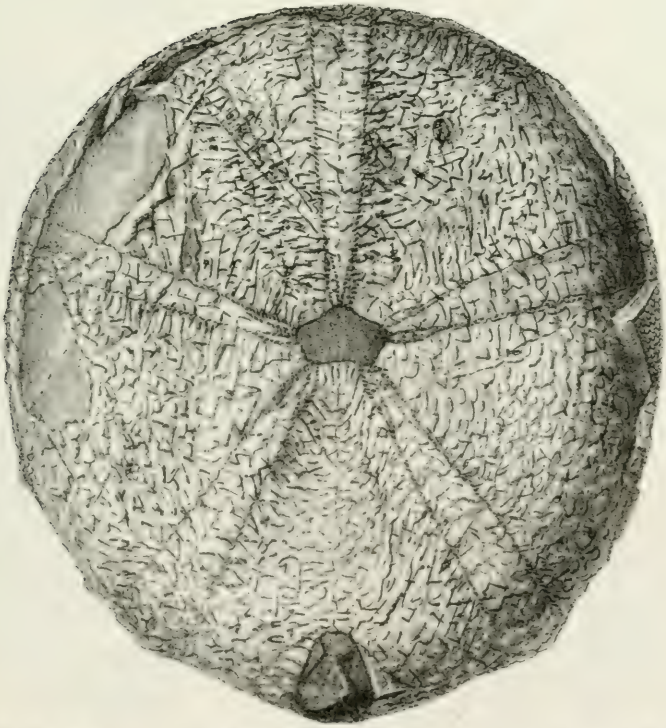
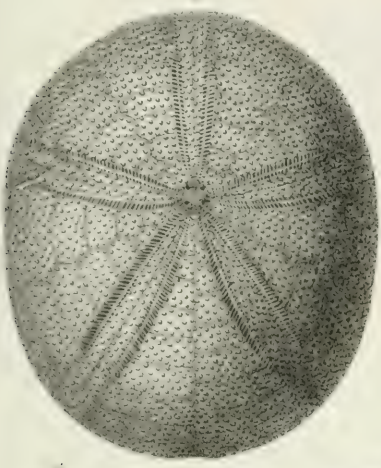
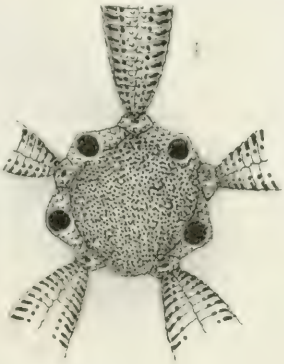
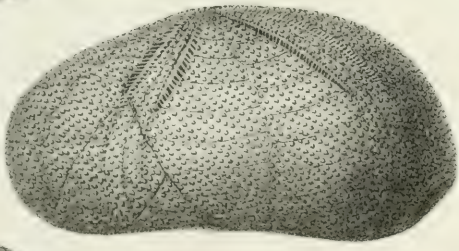


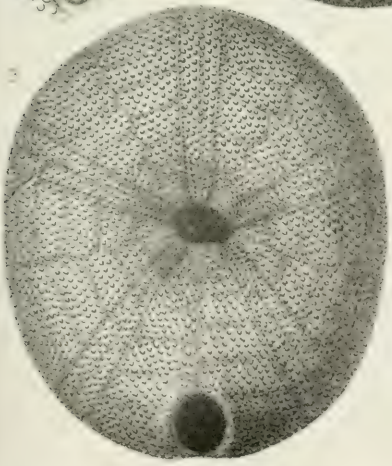
[illegible] J. Masson, Éditeur. Imp. Becquet & Paris.

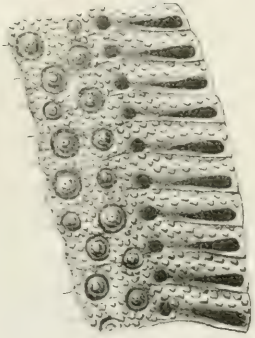
Oreolampas Michelini (Cotteau) Munier-Chalmas Eocène moyen





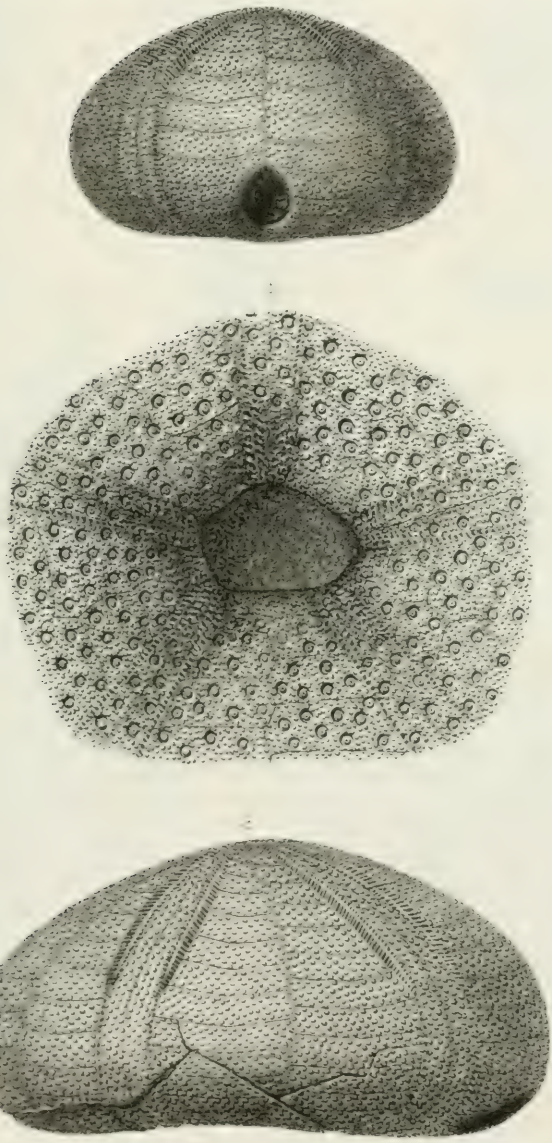






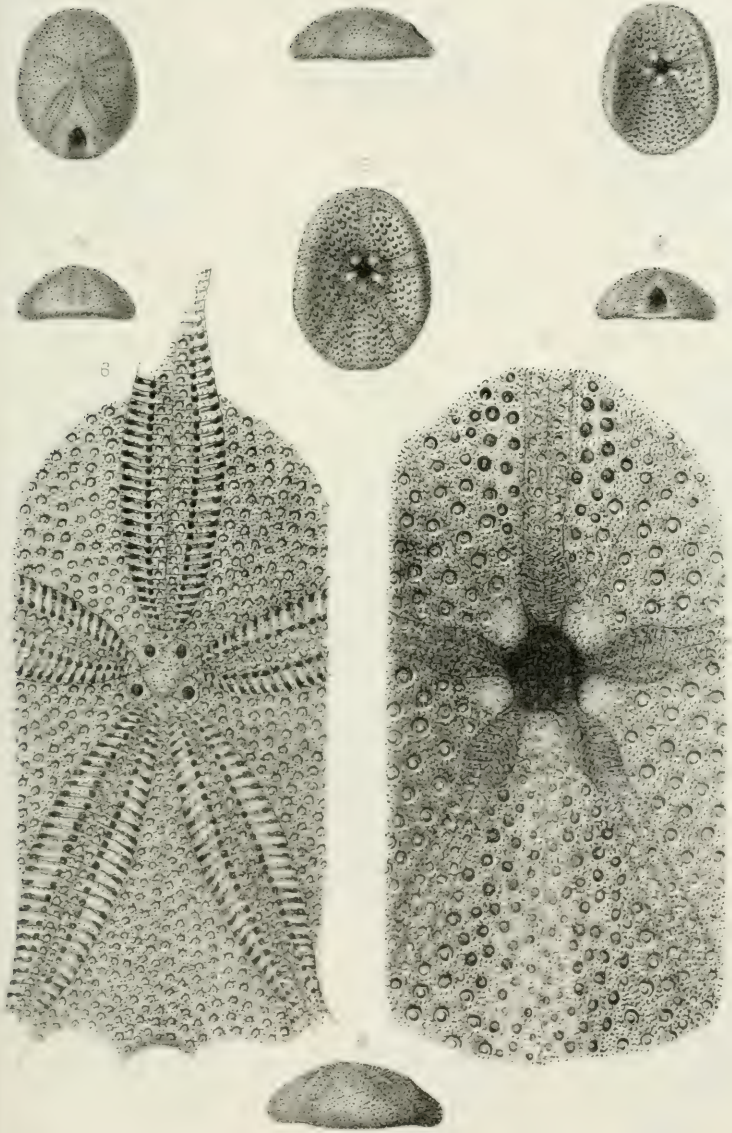
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris.

Oriolampas Heberti, Munier-Chalmas. Eocène moyen.



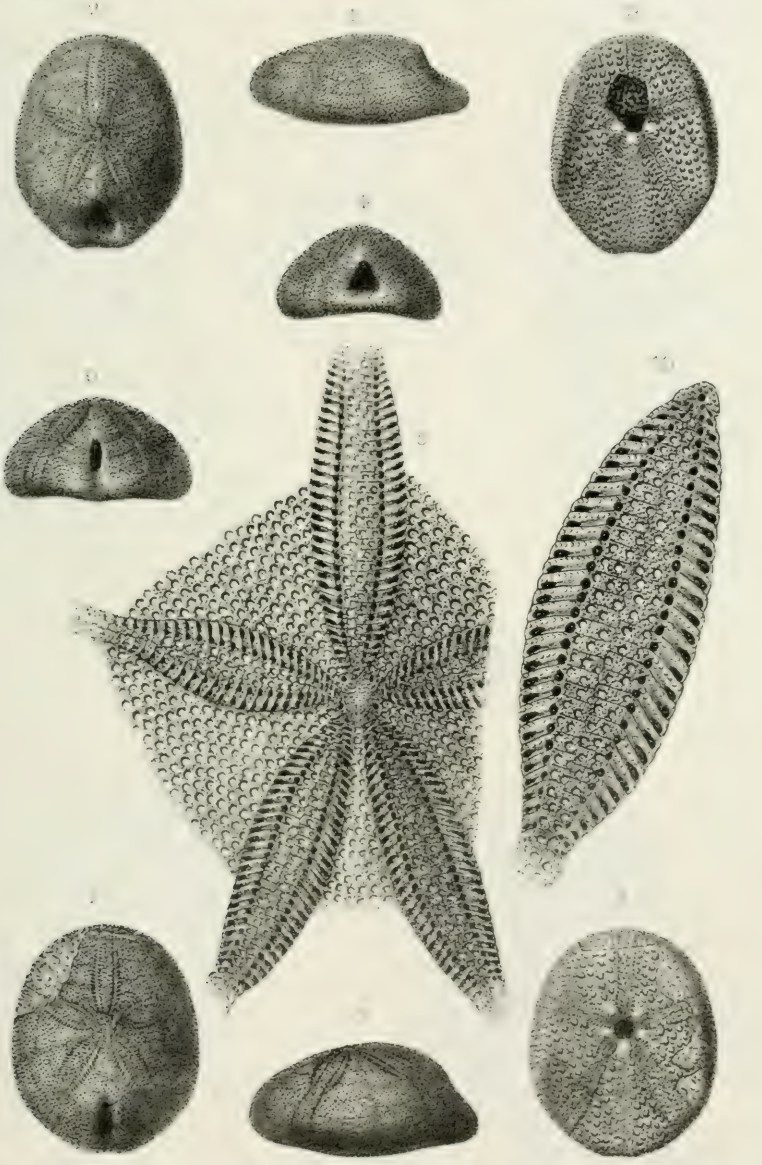
Humbert lith. G. Masson, Editeur Imp. Becquet & Pierre.

Oriolampas Heberti, Munier-Chalmas. Eocène moyen.



Cassidulus faba (Defrance), Agassiz. Eocène moyen.

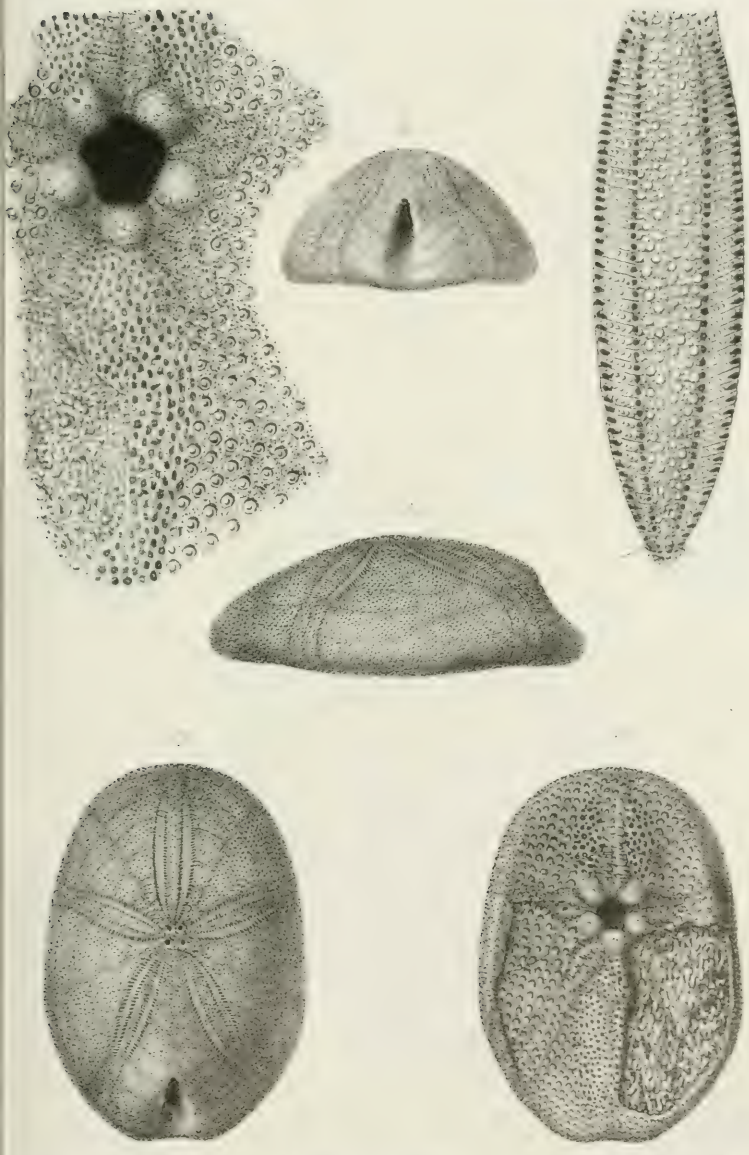
T. tertiaire (Eocène) Echinides. Pl. 140.



Hambert lith. G. Masson, Éditeur Imp. Becquet et Cie

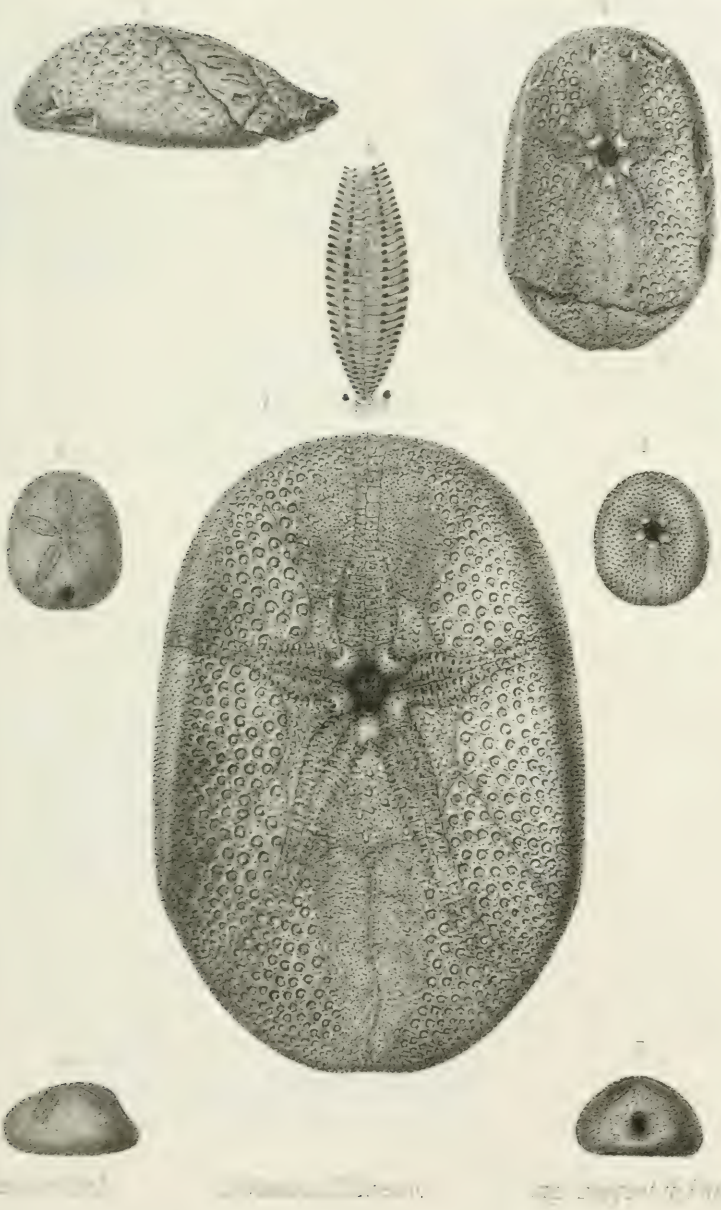
1_5 *Cassidulus Sorigneti*, Michelin Eocène moyen

6_10 C. ——— *Munieri*. Cotteau. Eocène inf



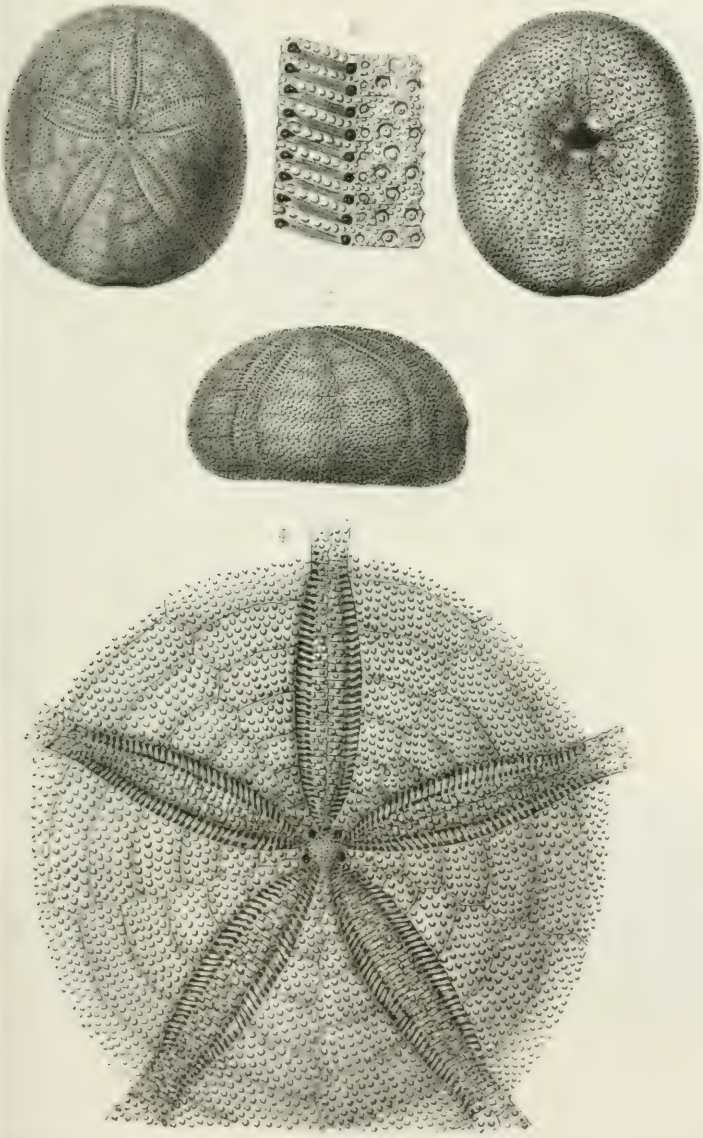
Humbert del. C. Masson, Editeur. Imp. Becquet Frères Paris

Cassidulus Vasseuri, Cotteau. Eocène moyen.

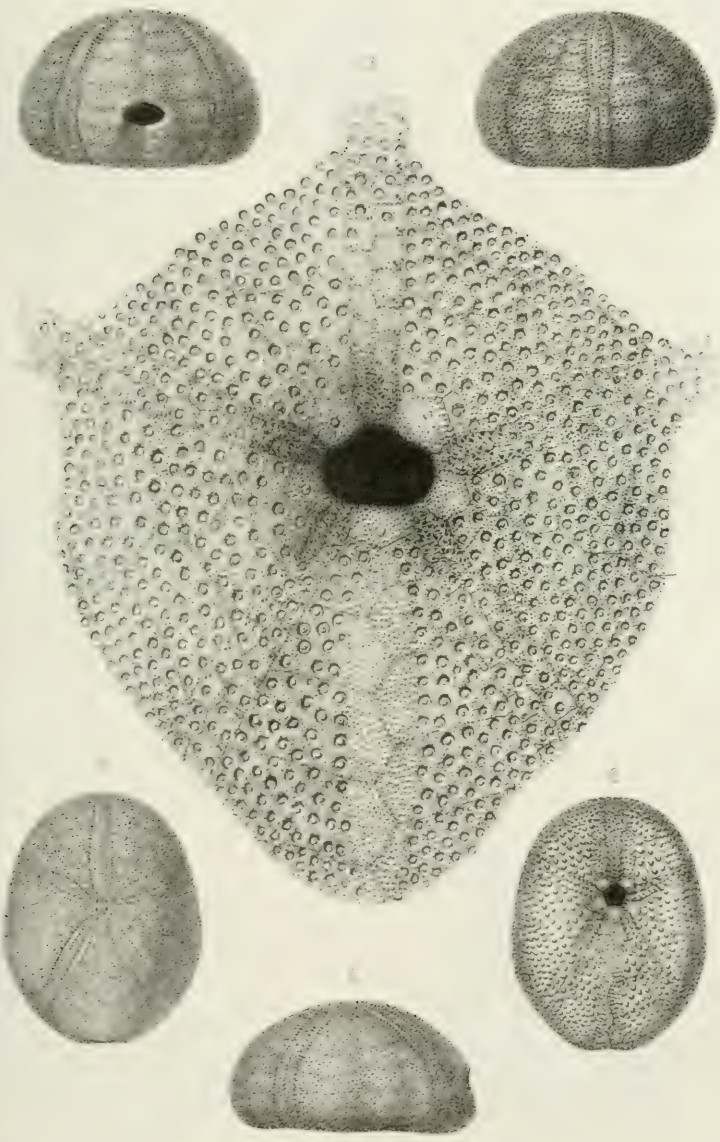


1-3 *Cassidulus Benedicti*, Cotteau. Eocène moyen.

4-6 *C.* _____ *ovalis*, _____



Pygorhynchus grignonensis (Defrance) Agass. Eocène moyen



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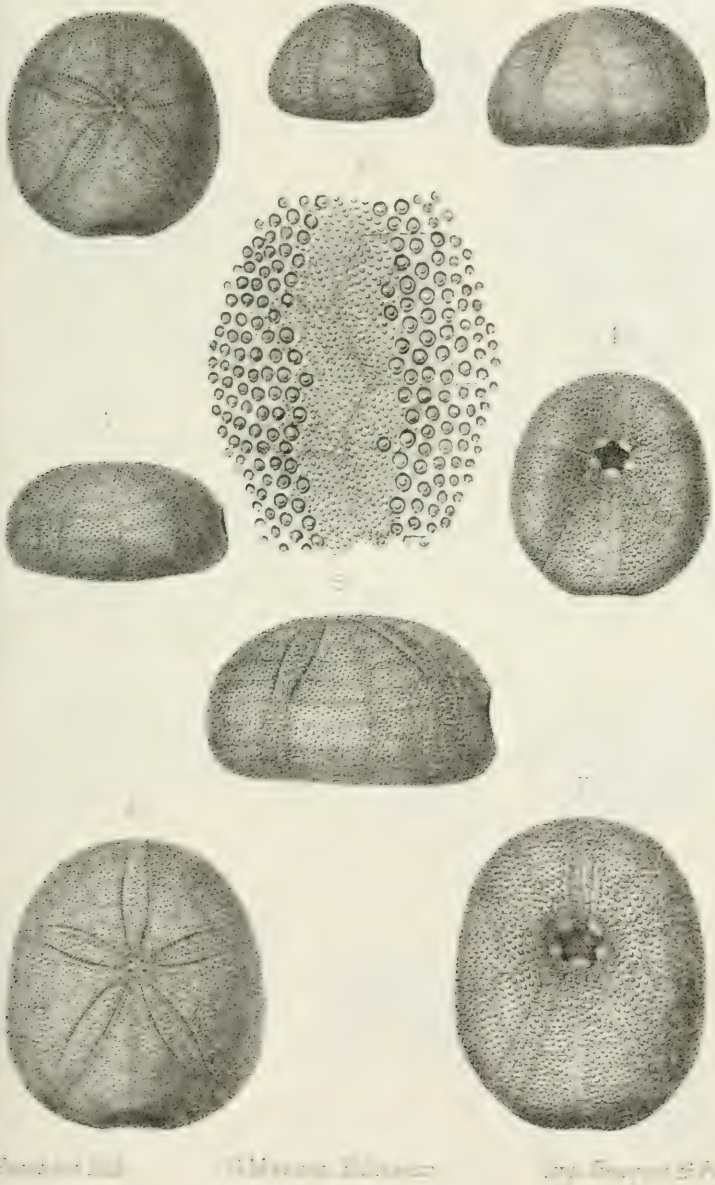
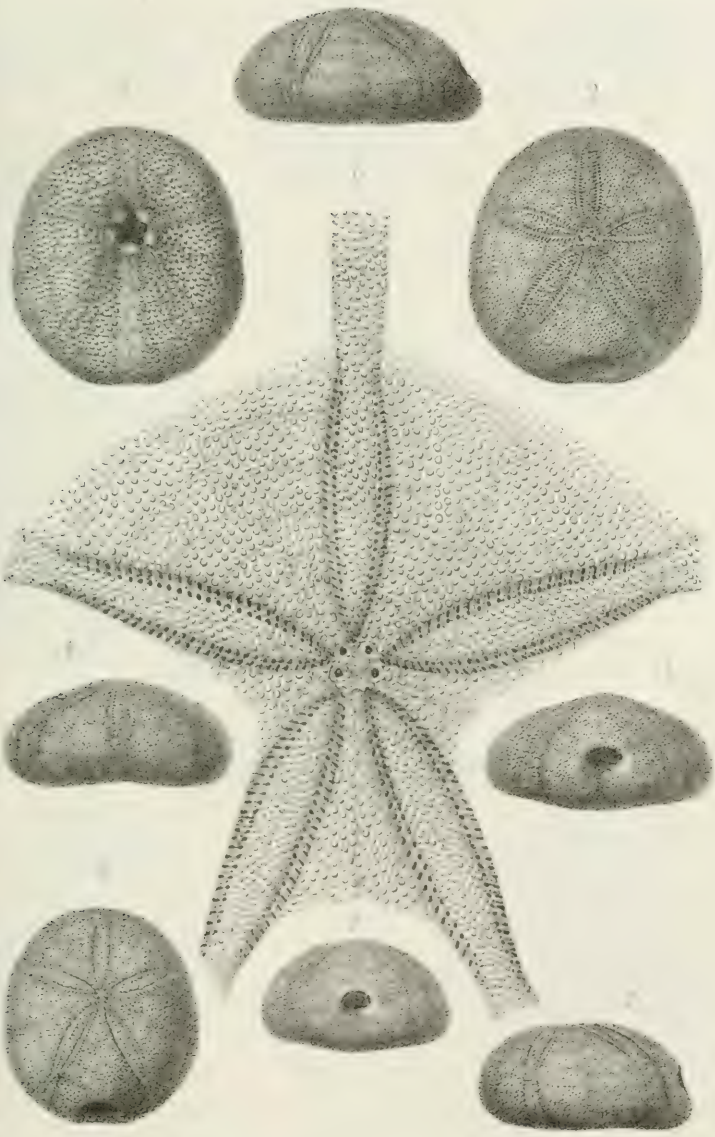
Hyporhynchus gregnonensis (Defrance) Agassiz. Eocène moyen.

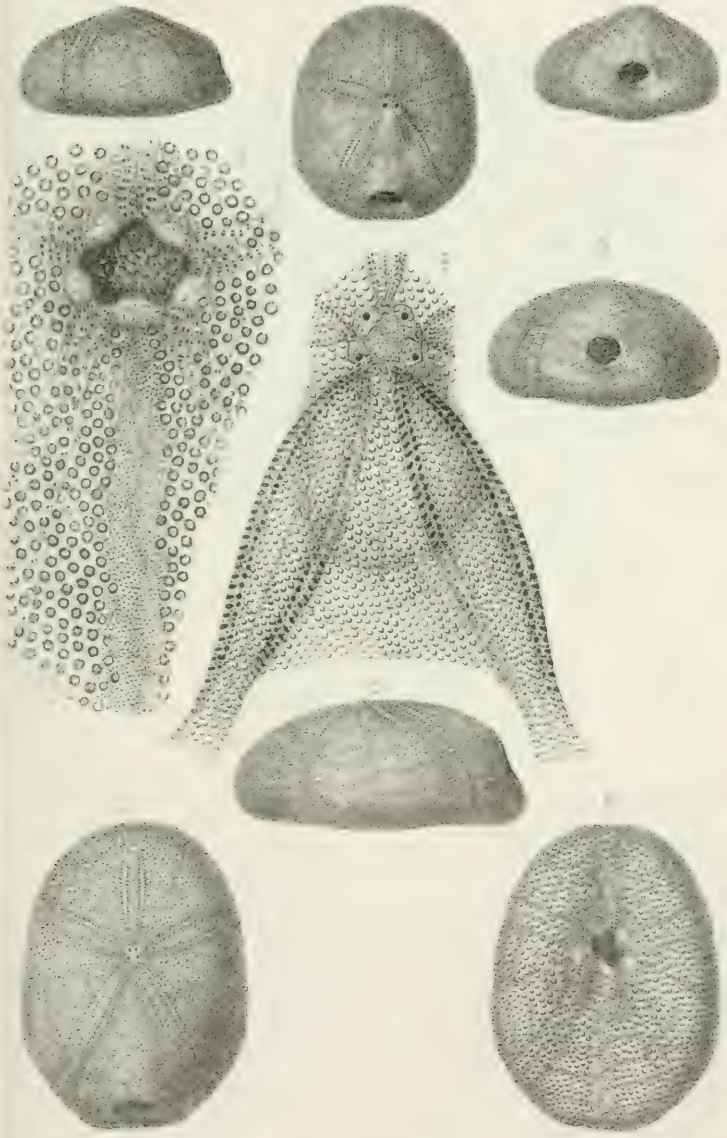


Pygorhynchus grignonensis (Defrance). Agassiz. Eocène moyen.

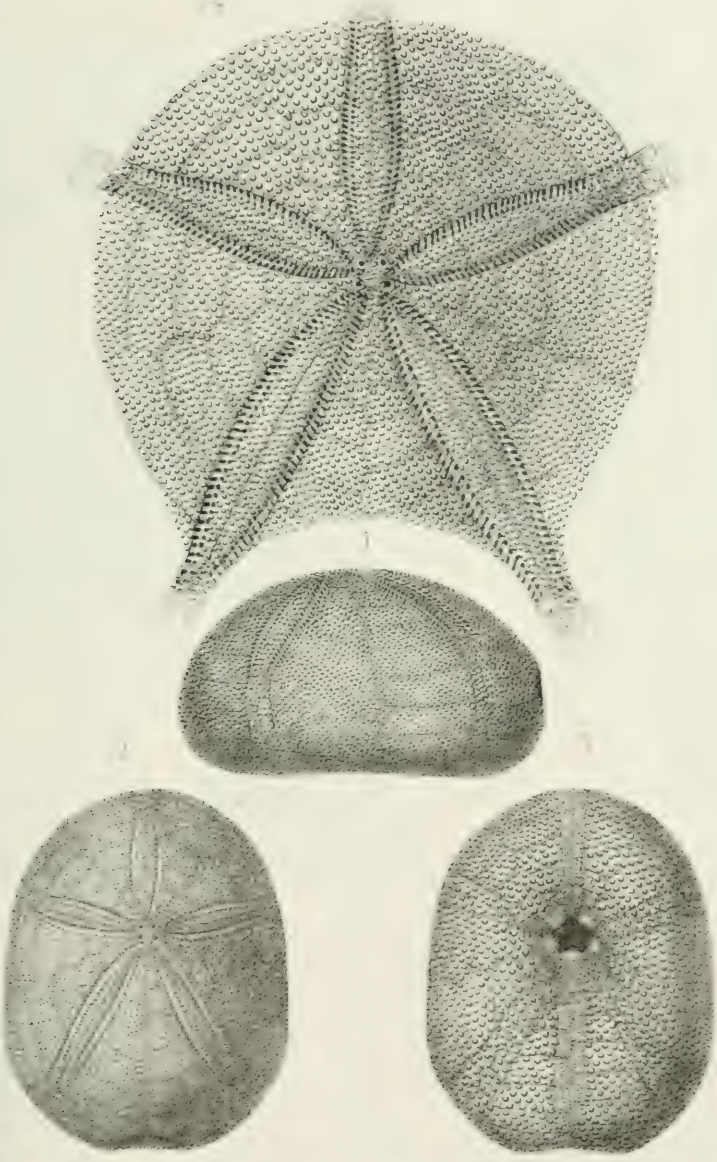


Humbert lith. G.Masson, Editeur. Imp.Becquet fr. Paris.

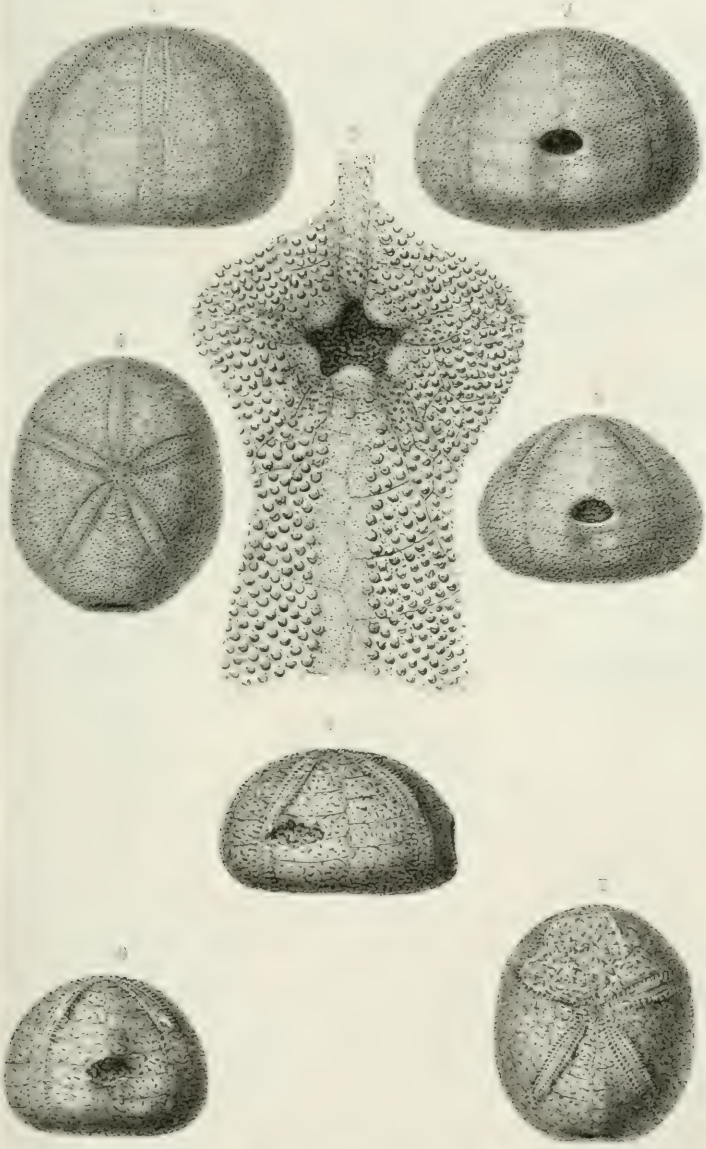
Pygorhynchus Gregoirei , Cotteau . Eocène moyen .



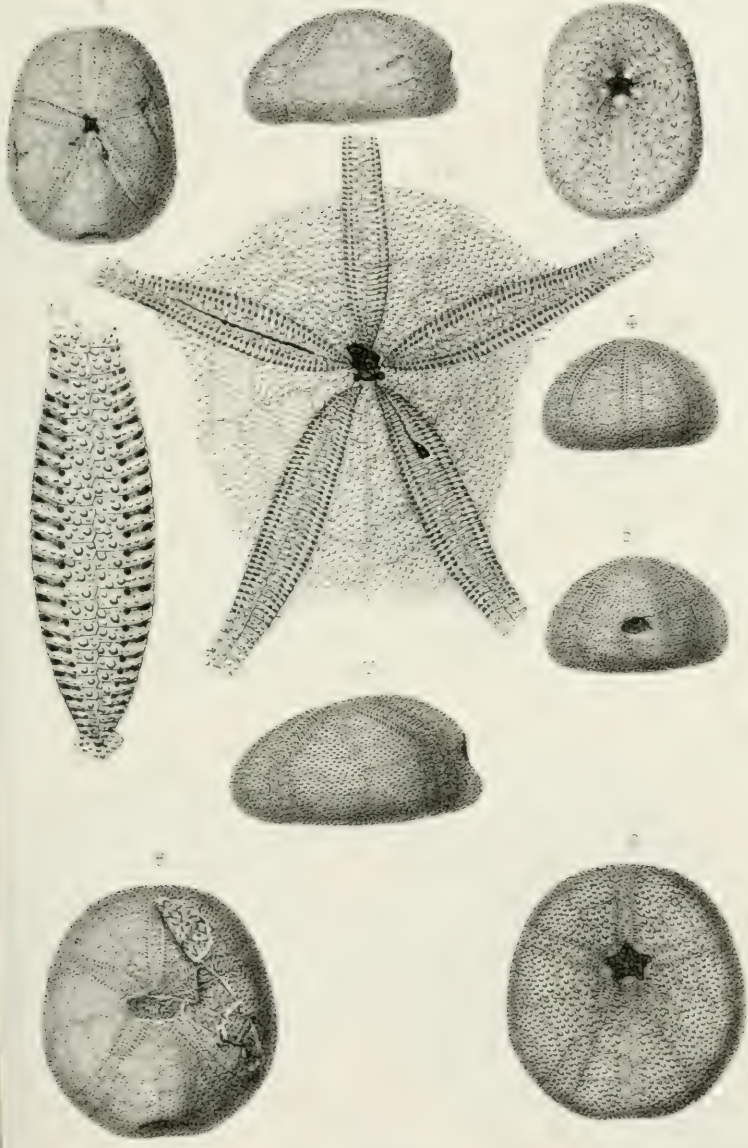
1–5. *Pygorhynchus Gregoirei*, Cotteau. Eocène moyen.
6–9. ——— *Heberti*, Cotteau



Pygorhynchus Desnoyersi, Desor. Eocène moyen



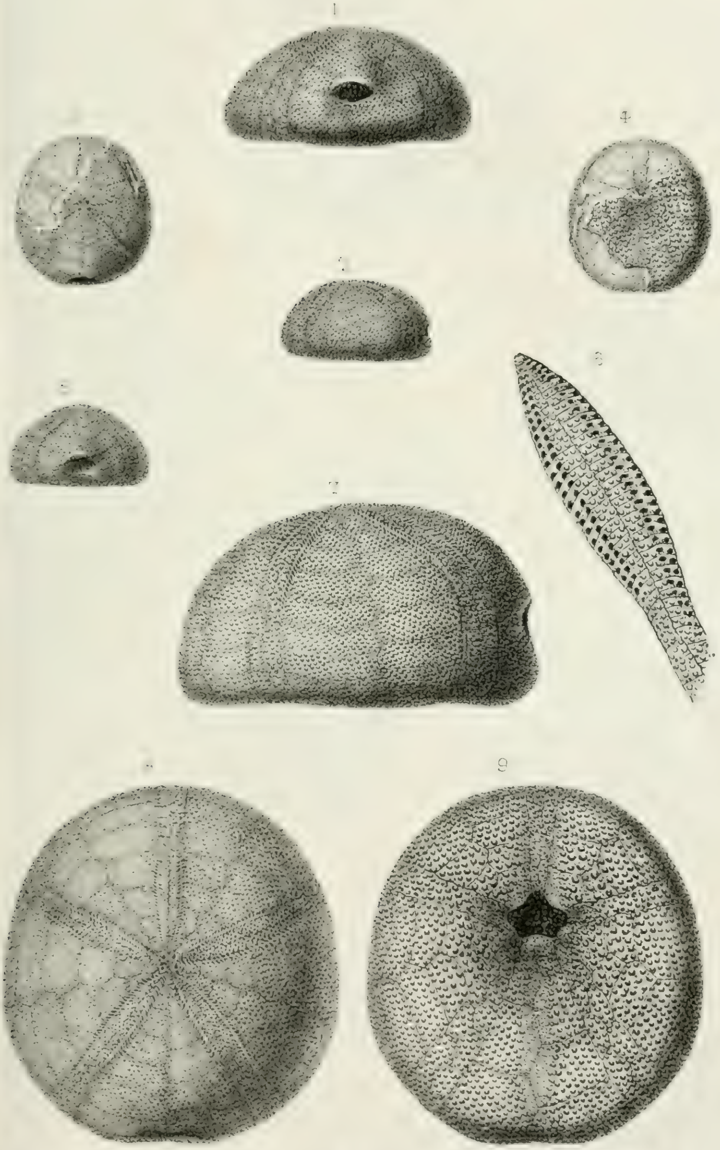
Pygorhynchus Desnoyersi. *Desor. Eocène moyen*.



Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

1_6 *Pygorhynchus carentonensis*, Cotteau. Eocene moyen

7_10. P. ——— *Gauthieri*, Cotteau. ——— ———.



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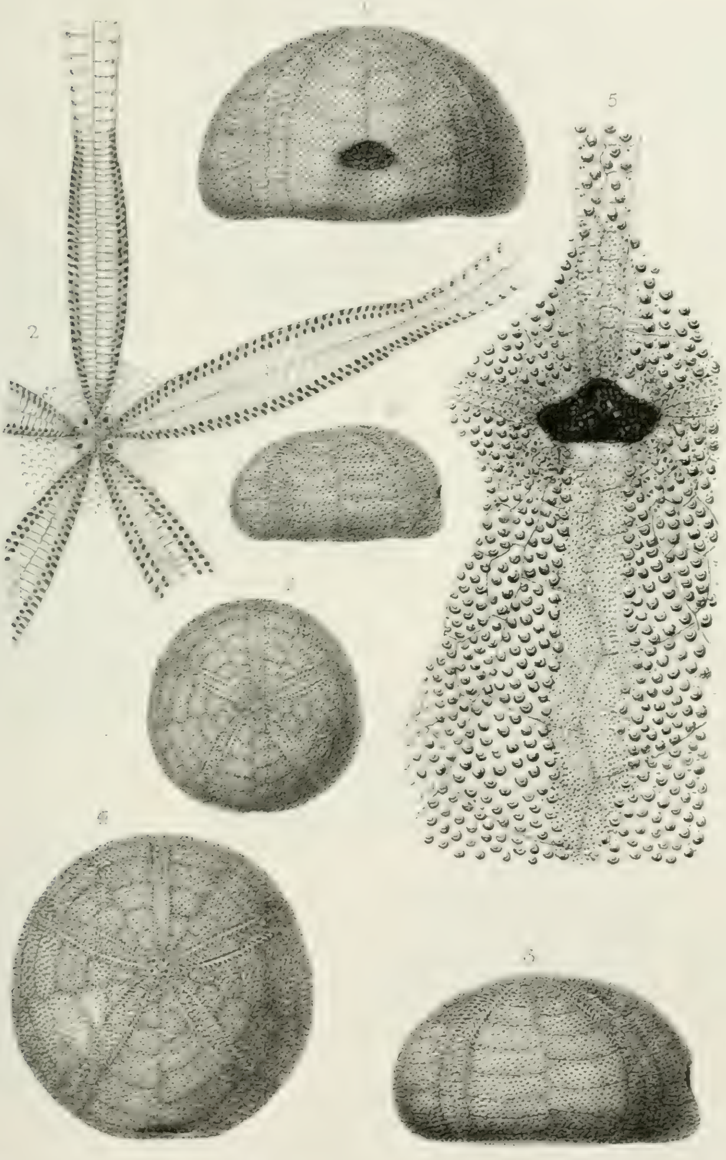
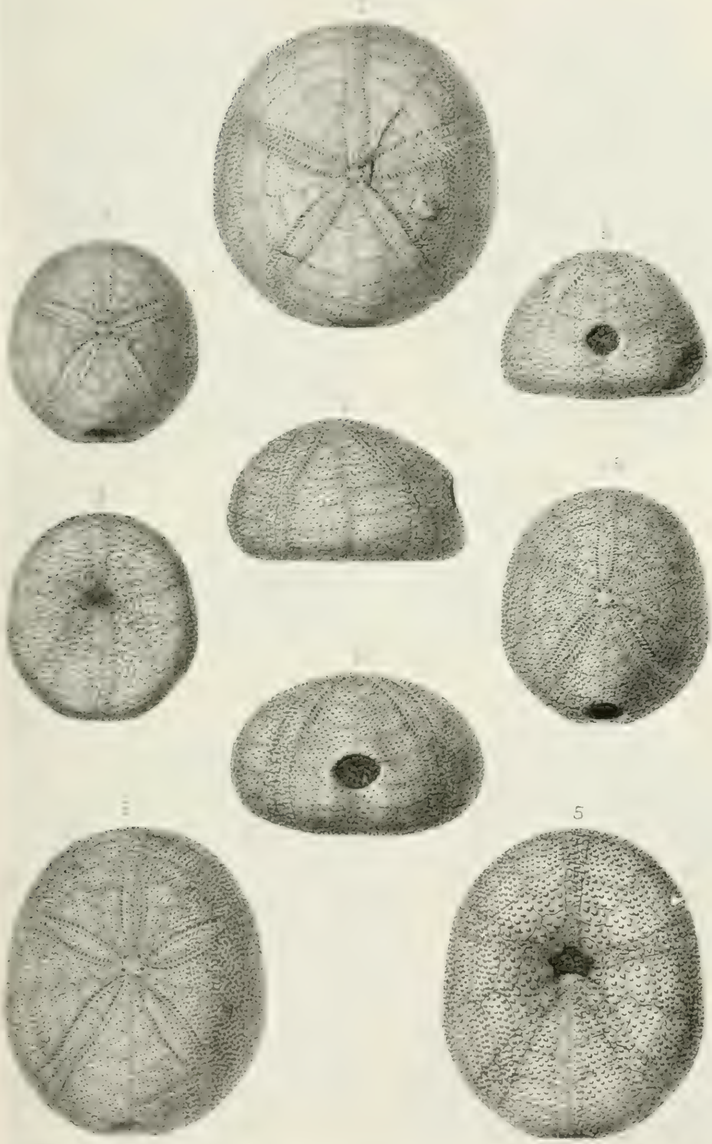
1_6. *Pygorhynchus Gauthieri*. Cotteau. Eocène moyen.

9. *P. ______ Desori*, d'Archiac. Eocène supérieur.

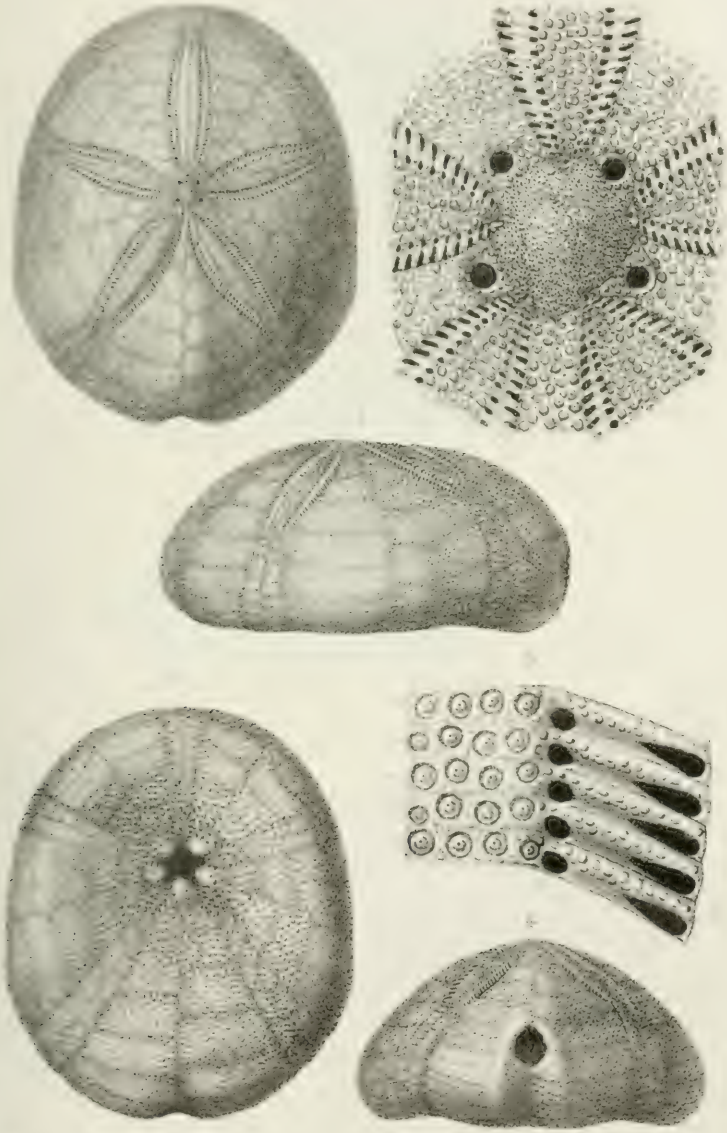


Humbert fils G. Masson Éditeur Imp. Becquet fr. Paris.

Pygorhynchus Desori, d'Archiac. Eocène supérieur

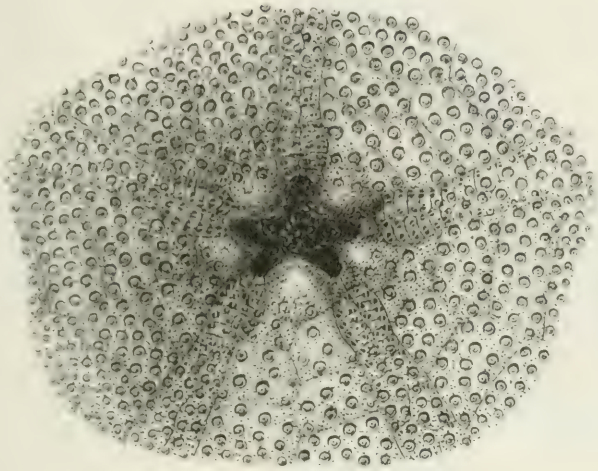


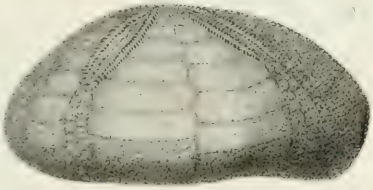
Pygorhynchus Desori, d'Archiac. Éocène moyen.

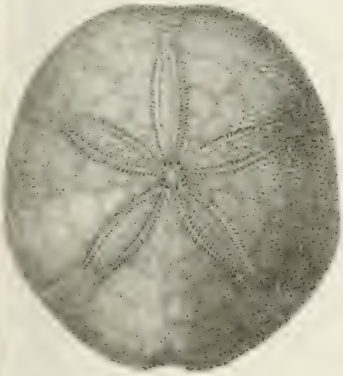


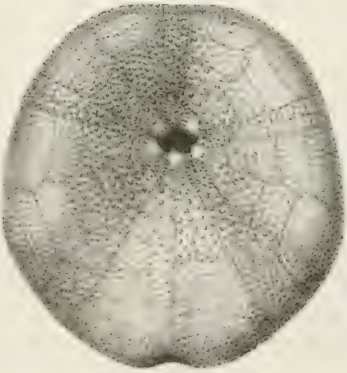
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

Echinanthus issyaviensis Klein (Mémoire Chalmas Eocène inférieur)









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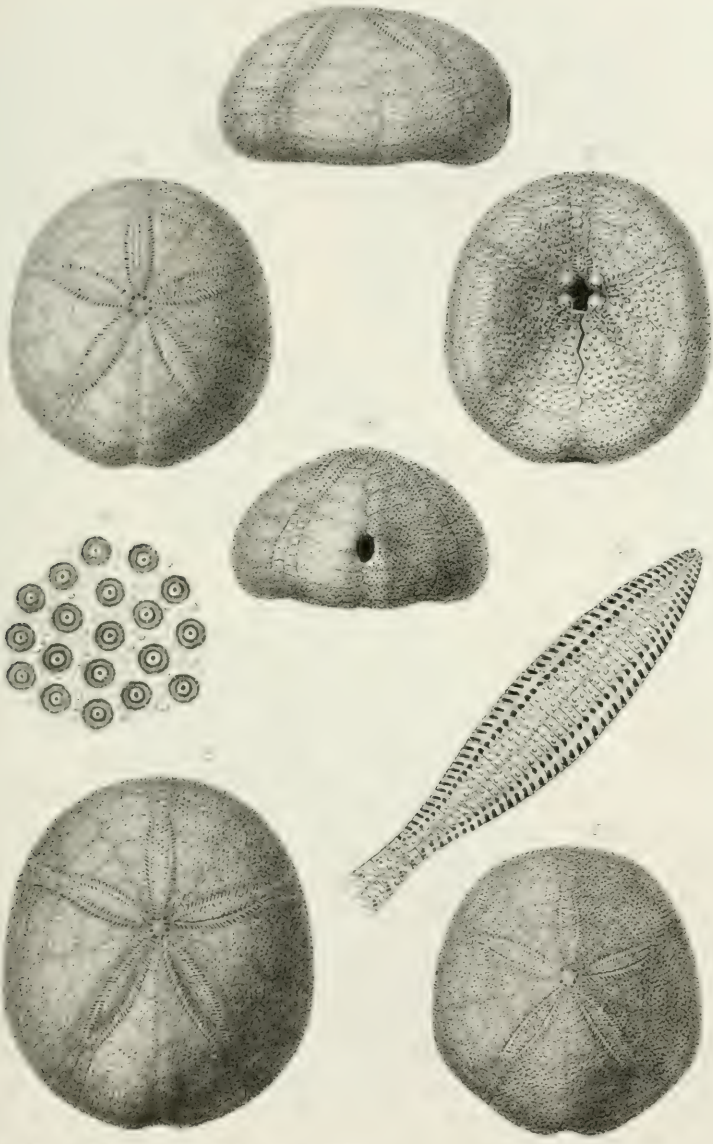
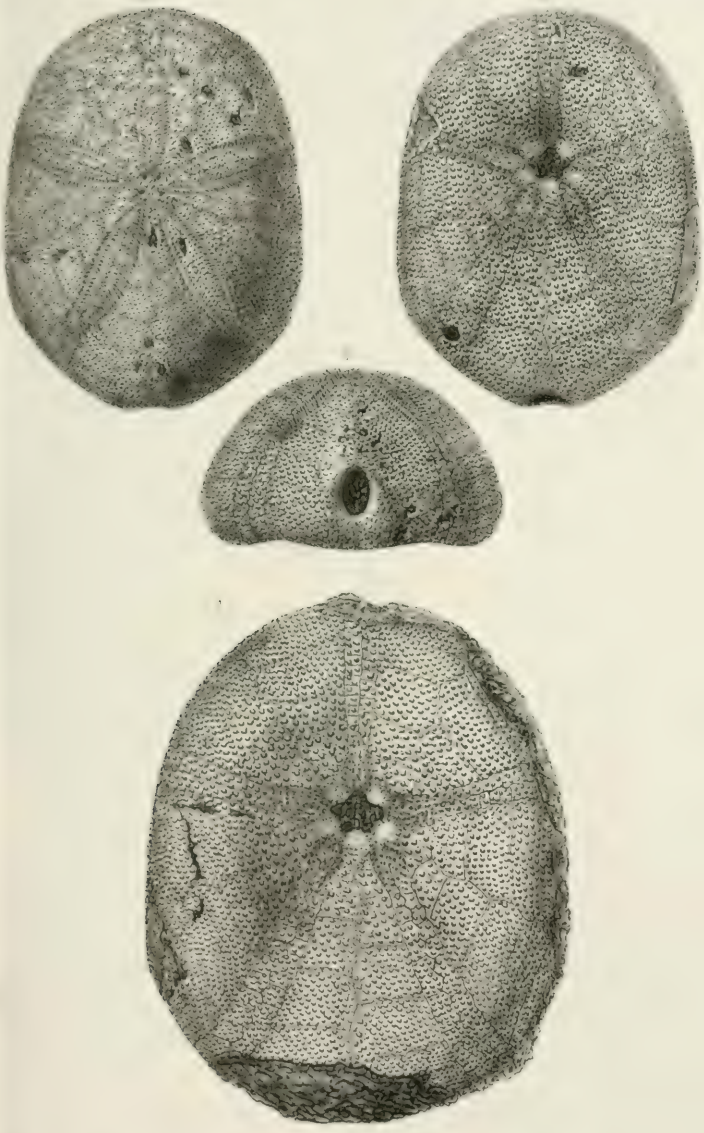
Linanthas issyaviensis (Klein). M. Chalmas. Eocène moyen.



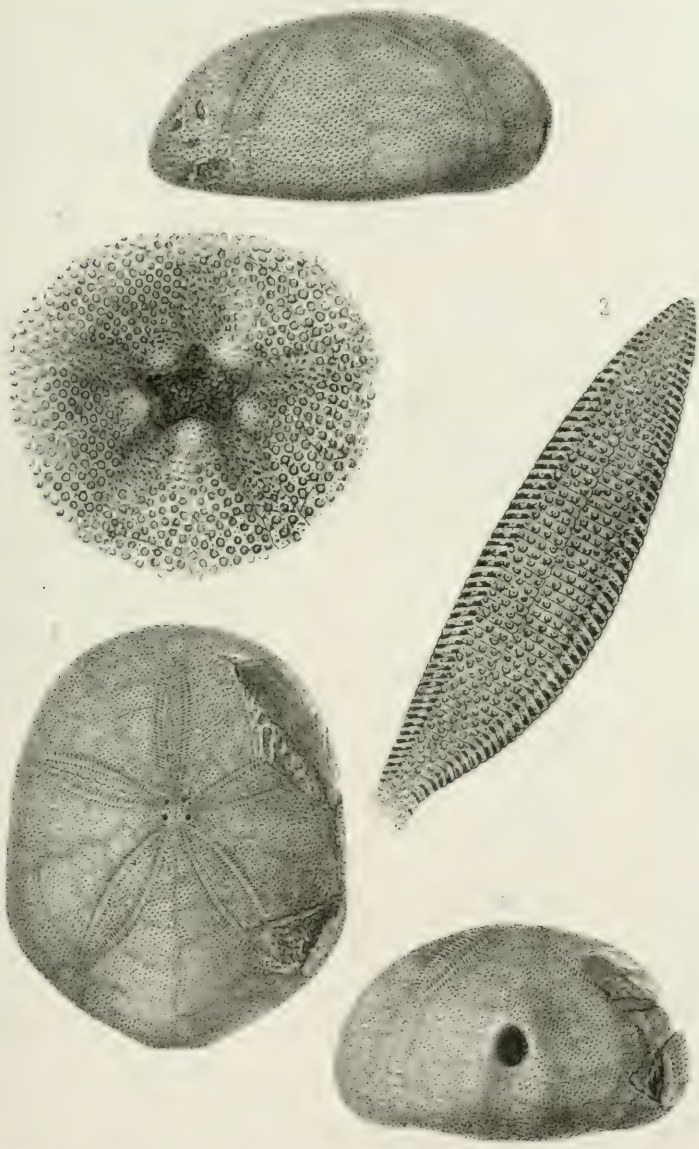
Imp. Becquet fr. Paris.

Echinanthus issyaviensis (Klein) M. Chalmas. Eocène moyen.

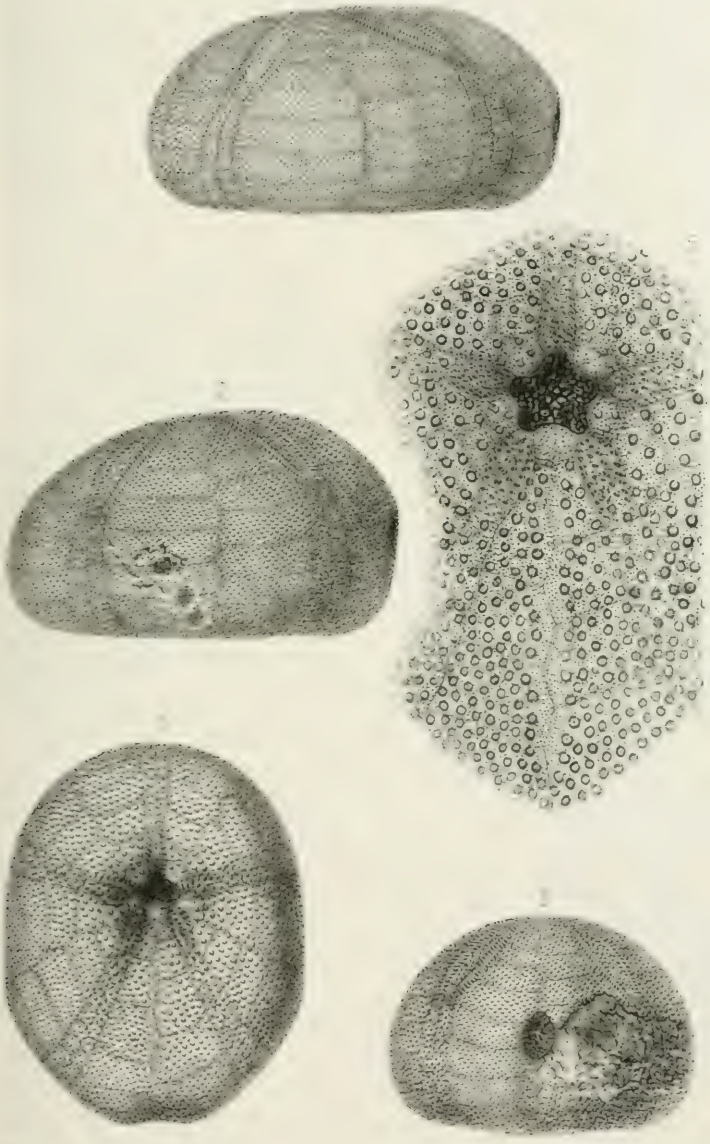


Echinanthus issyaviensis. (Klein) M. Chalmas Ec[illegible]

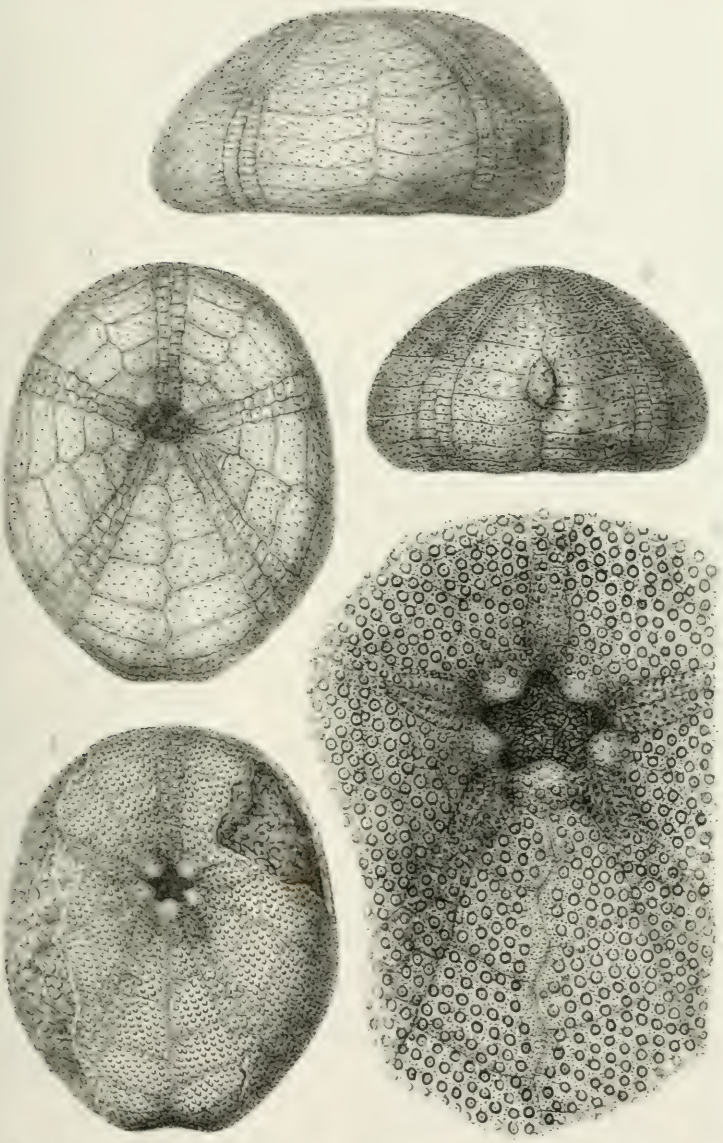
E. ——— *Michelini.* *Desor.*



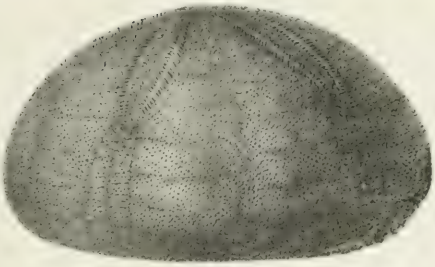
1–5. *Echinanthus Michelini*, Desor. Eocène moyen
4, 5 *b*. ——— *Bonissenti*, Cotteau ——— ———

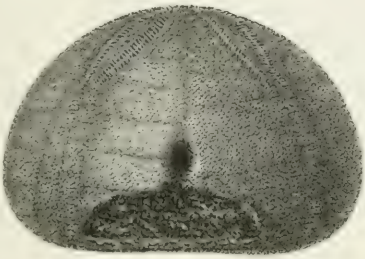


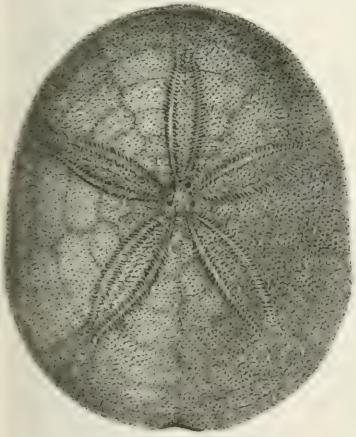
Echinanthus Boussaki Cotteau



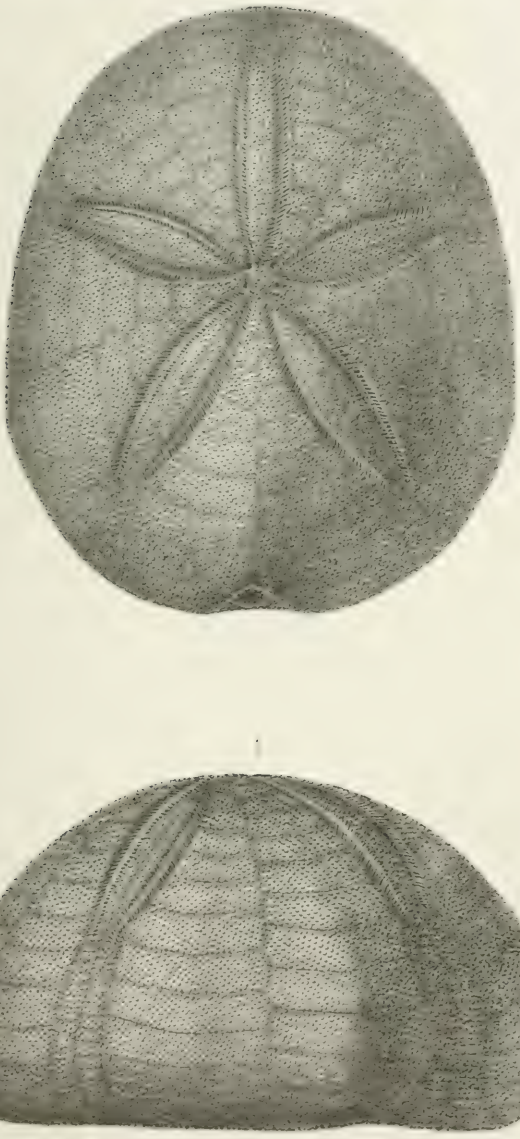
Echinanthus Bonissenti Cottean Eocène moyen



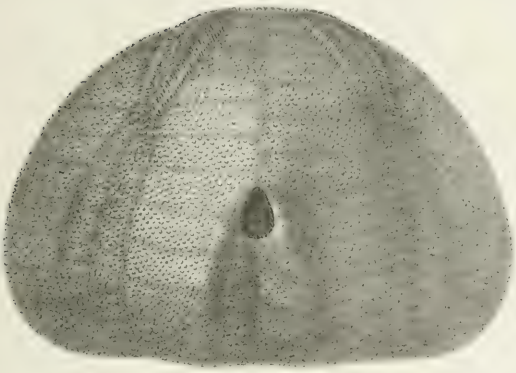


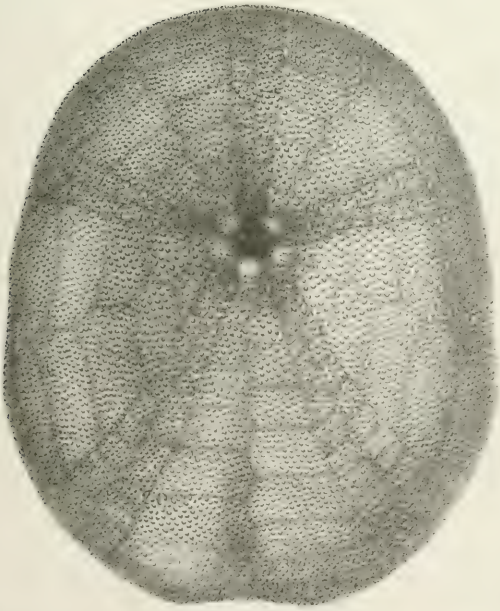


Echinanthus Ducrocqui, Cotteau. Eocène moyen



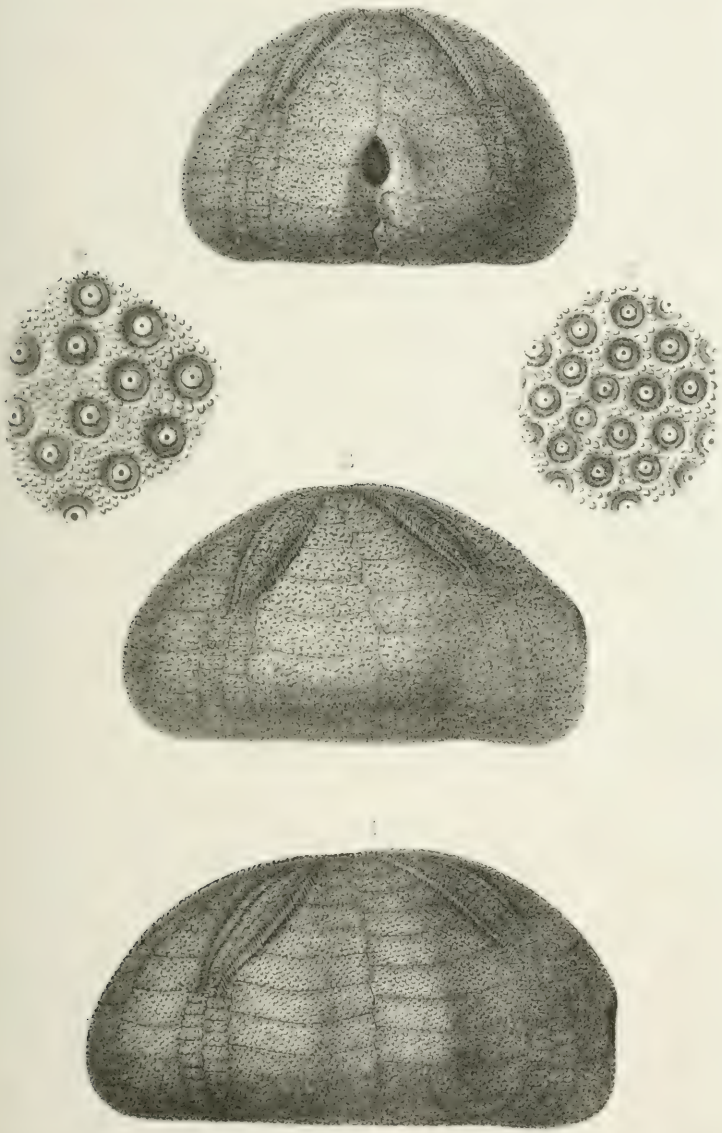
Echinanthus Des Moulinsi (Delbos) Desor: Eocène moyen



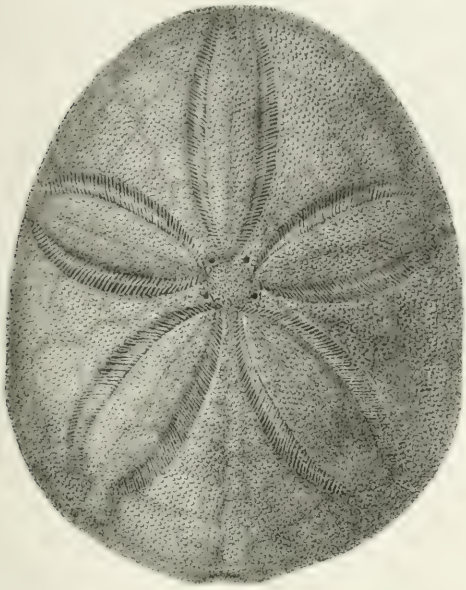


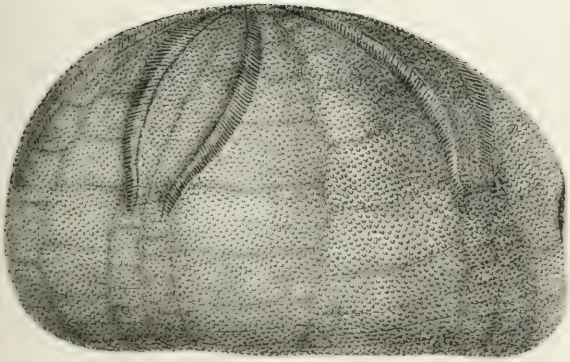
Humbert lith.

Echinanthus Des Moulinsi (Delbos). Dessr. Eocène moyen



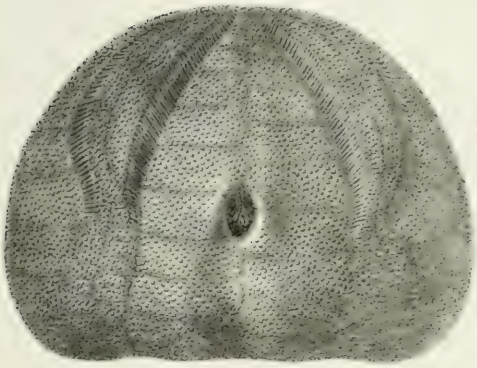
Echinanthus Des Moulinsi Delbos et Desor. Eocène moyen

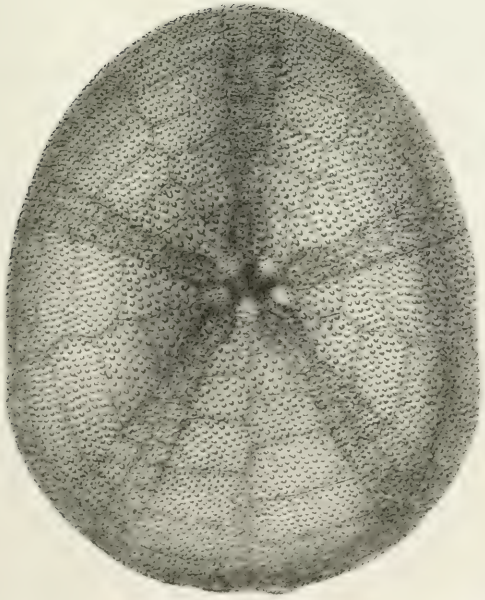




Lambert lith. G. Masson, Editeur.

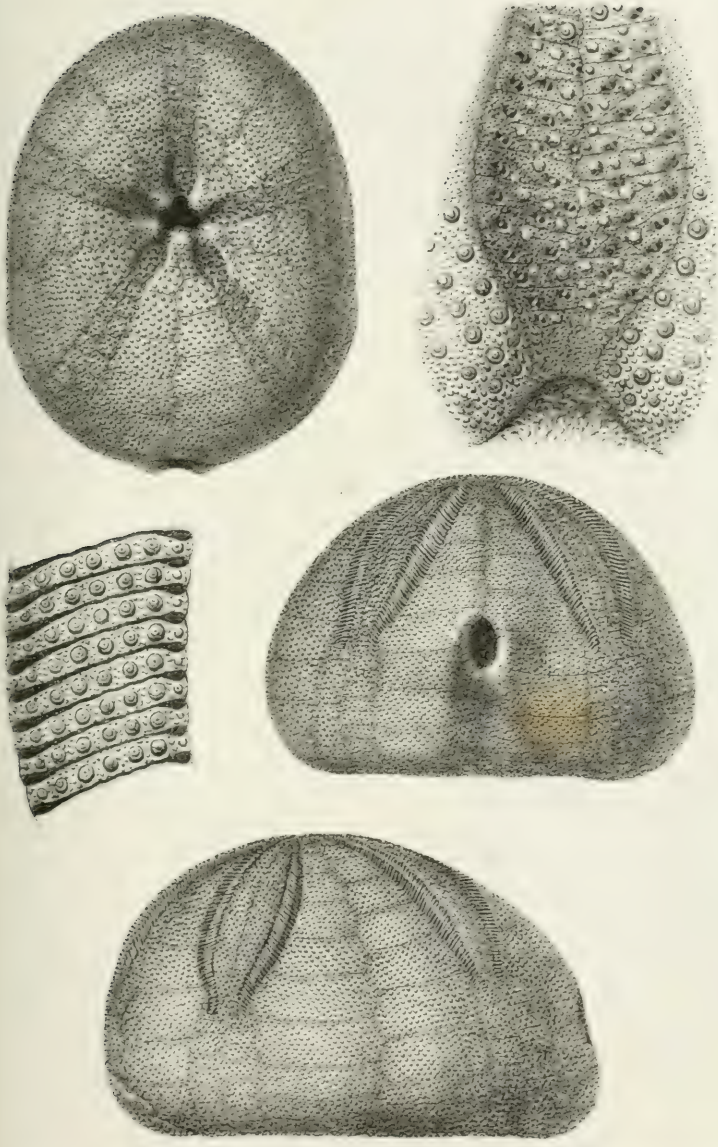
Echinanthus elegans, Pavay. Eocène moyen.





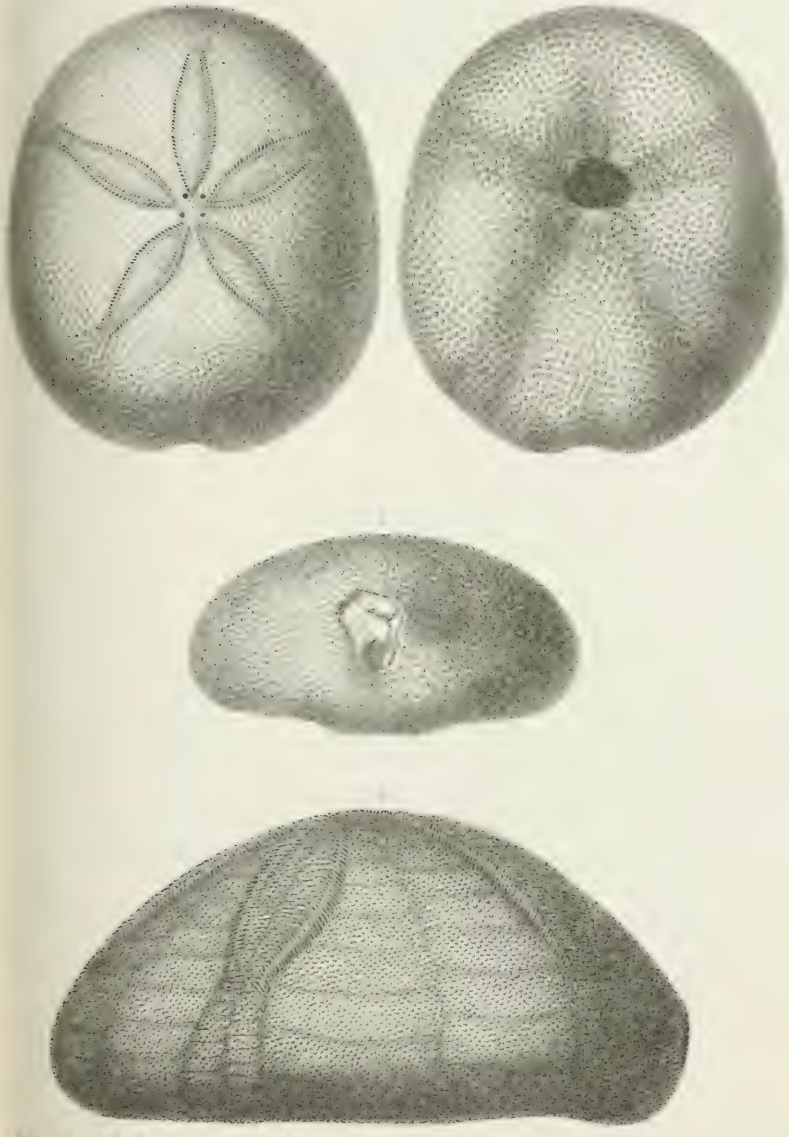
G. Masson, Editeur

Echinanthus elegans, Pavay. Eocène moyen.

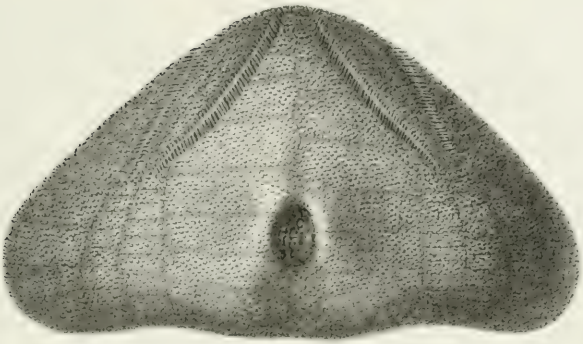


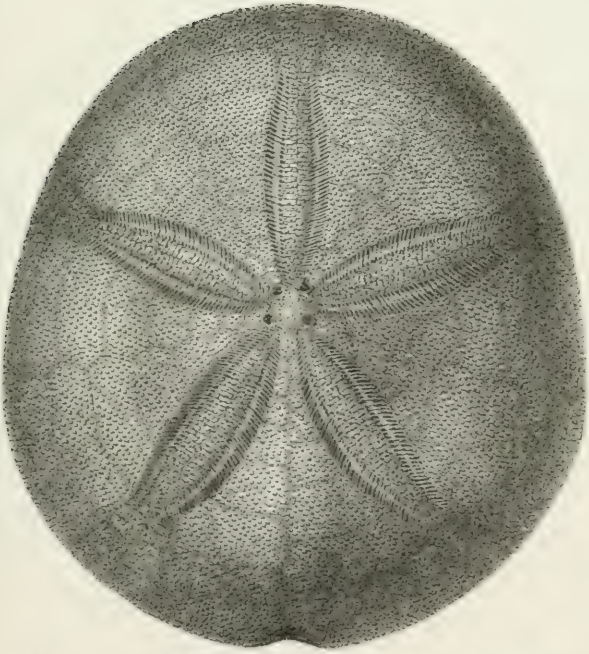
Echinanthus elegans, Pavay Eocene moyen

Echinanthus nicaensis, Coll. Eocène moyen.

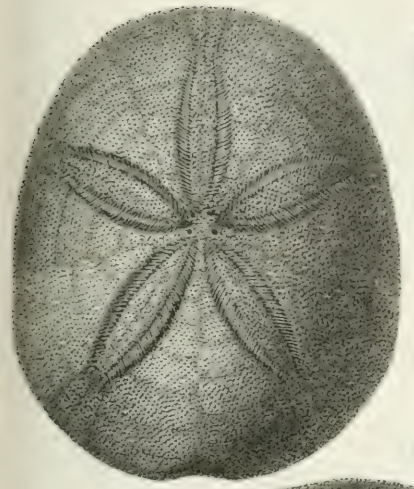


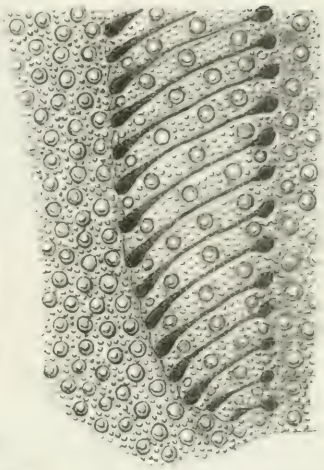
1-3. *Echinanthus Delbosi*, Desor. Eocène supérieur.
4. *E.* _____ *scutella* (Lamarck) Desor. Eocène moyen

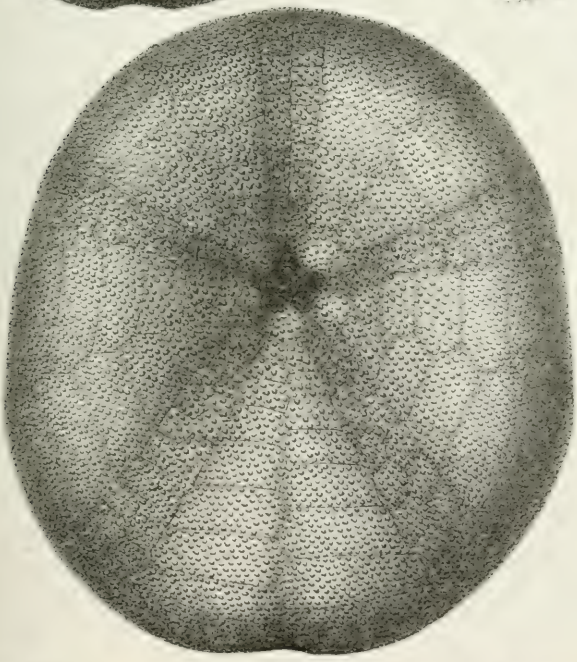




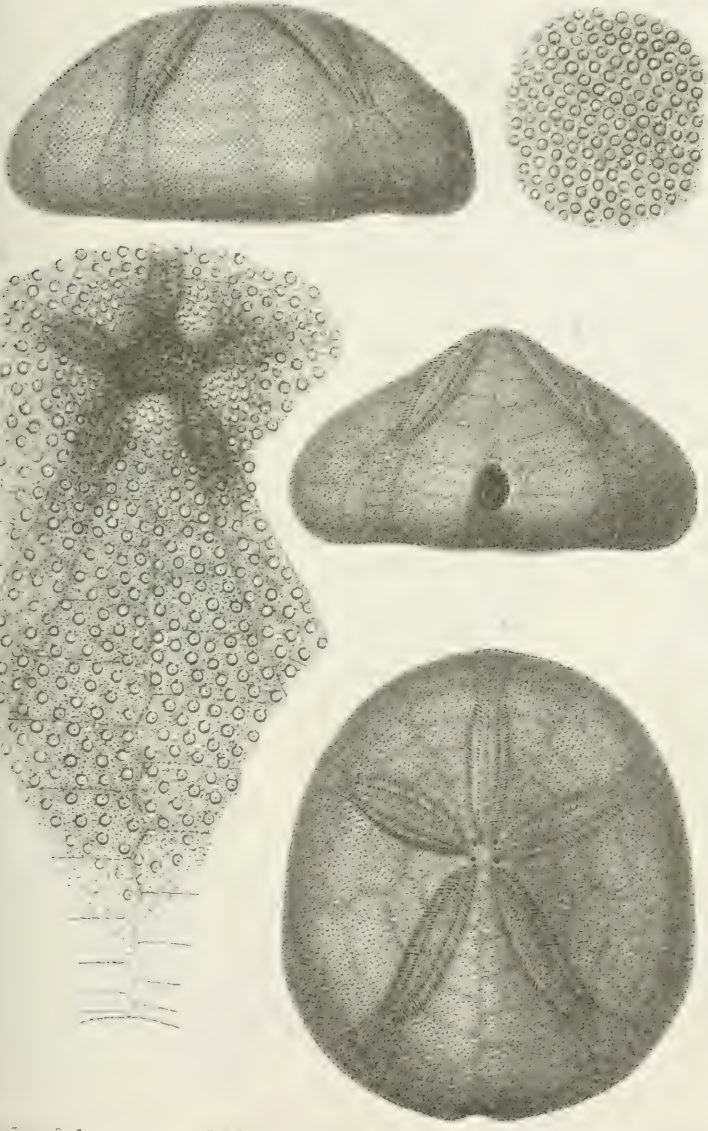
Echinanthus scutella (Lamarck), Desor. Eocène moyen





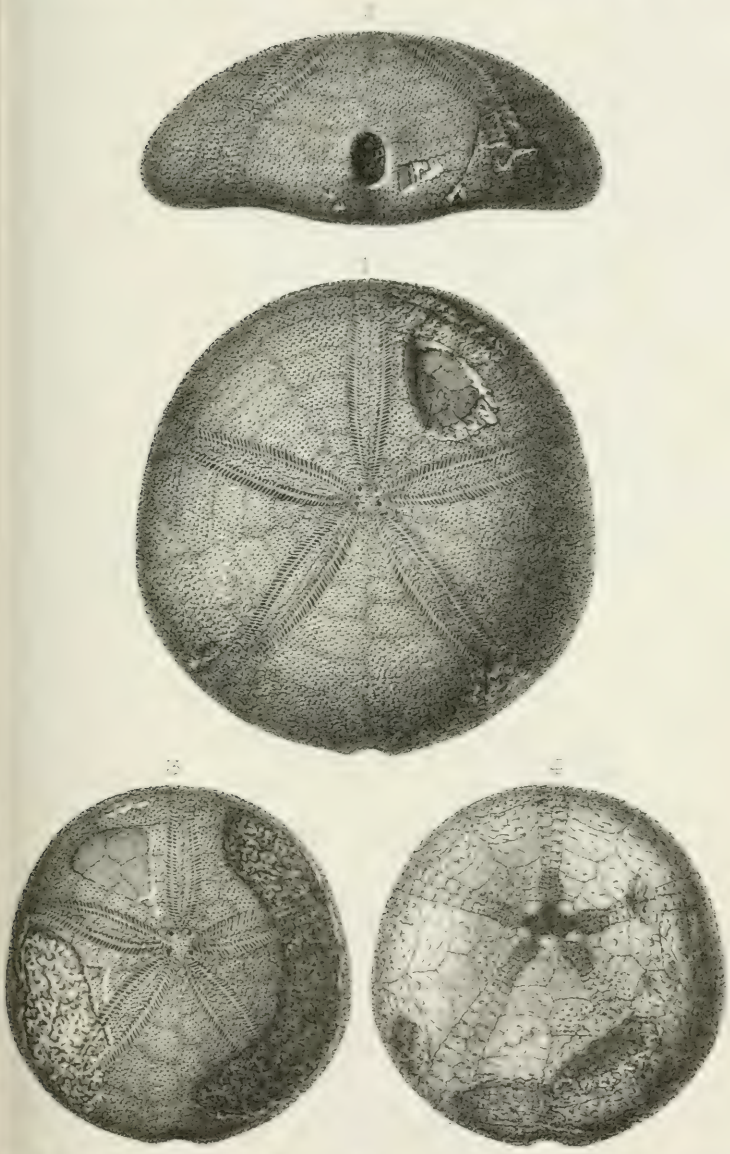


Echinanthus scutellaLamarck

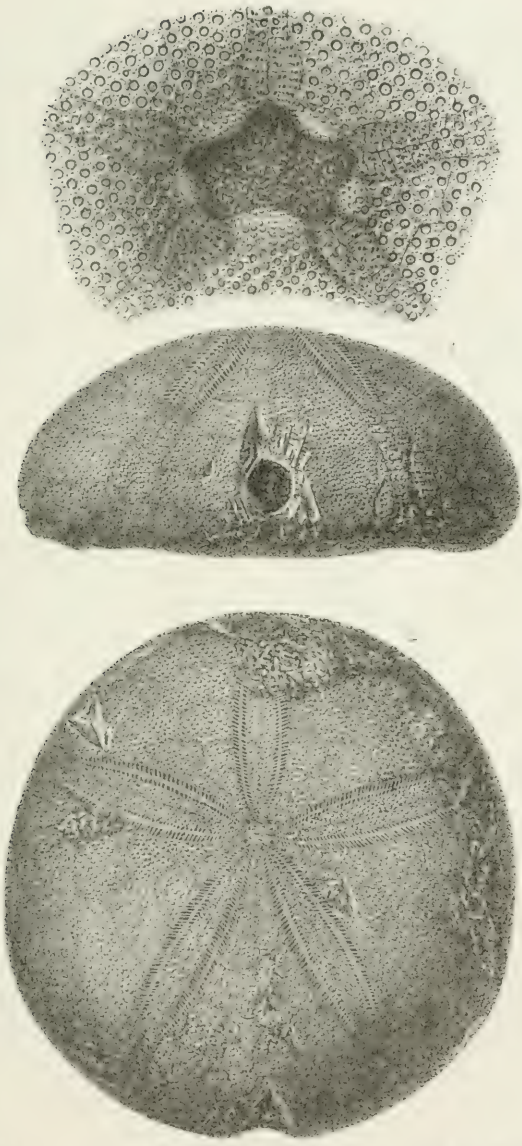


Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

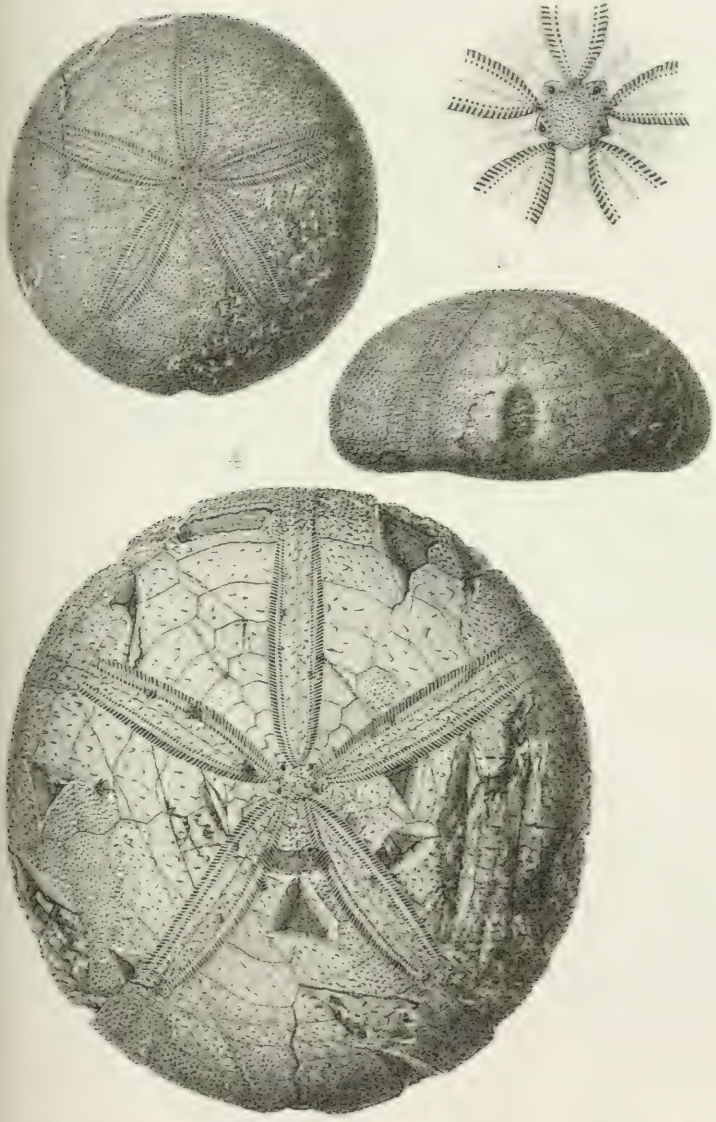
Echinanthus scutella (Lamarck). Desor. Eocène moyen.



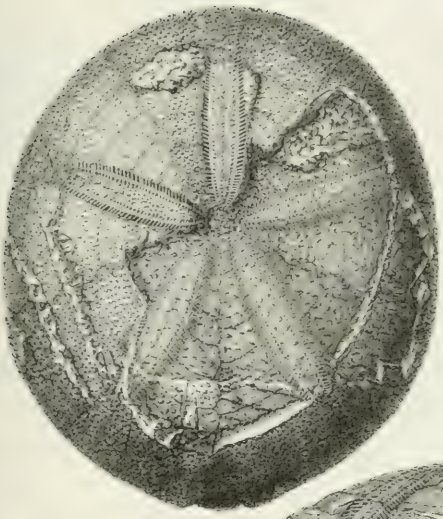
Echinanthus subrotundus, Cotteau. Eocène moyen.

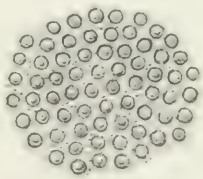


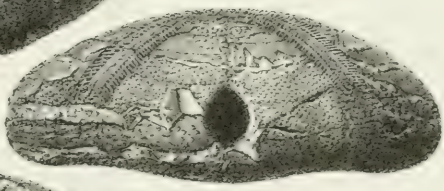
Echinanthus subrotundus, Cotteau. Eocène moyen.

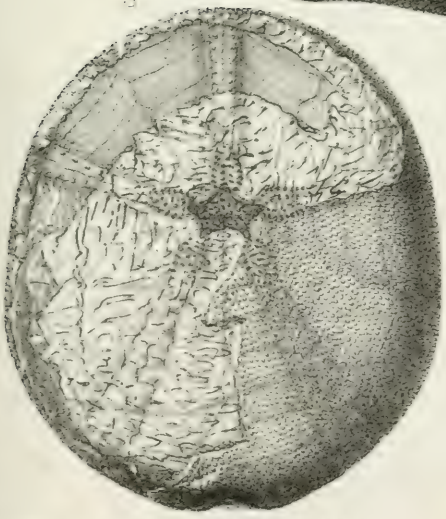


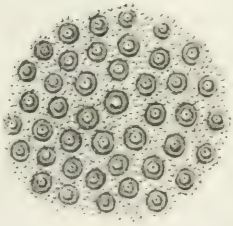
1-3. *Echinanthus subrotundus*, Cotteau. Eocène moyen.
4. *E.* _____ *Pouechi*, _____



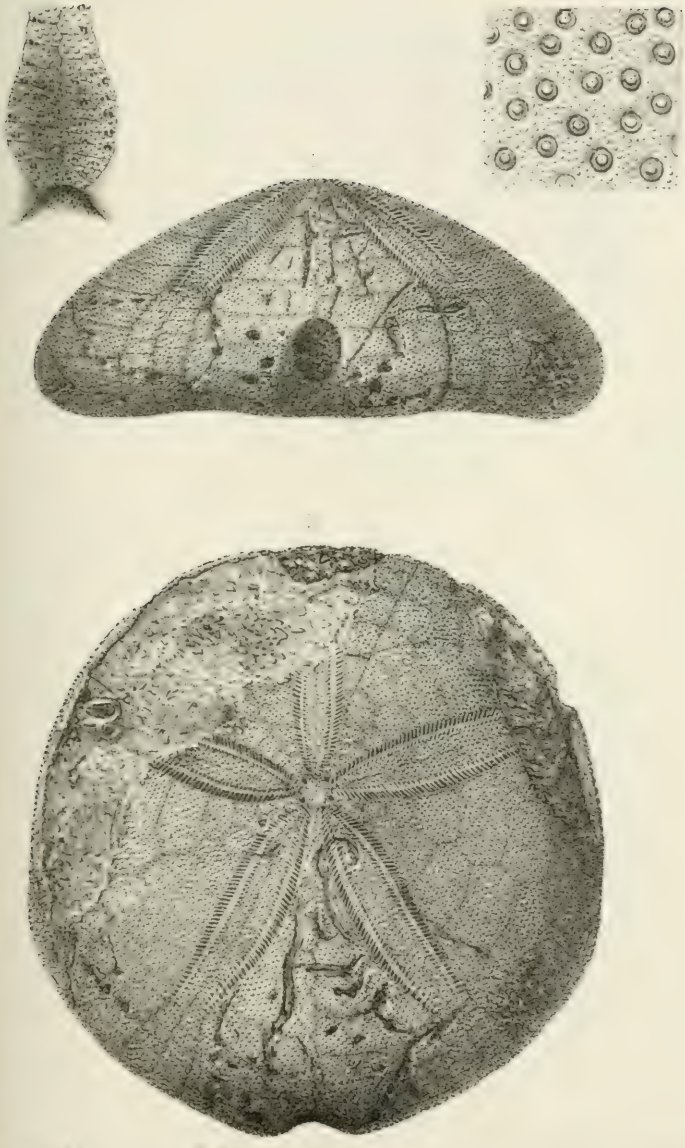




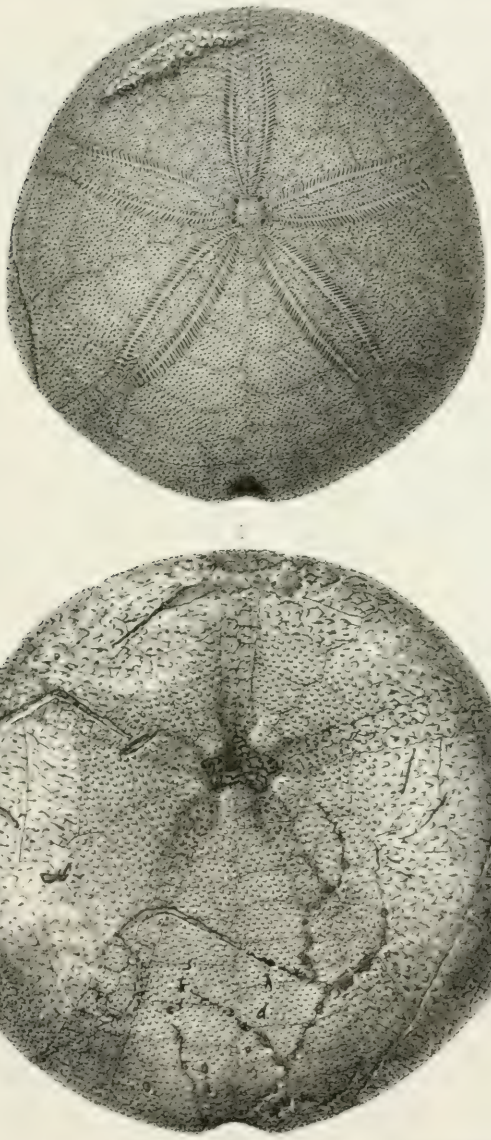




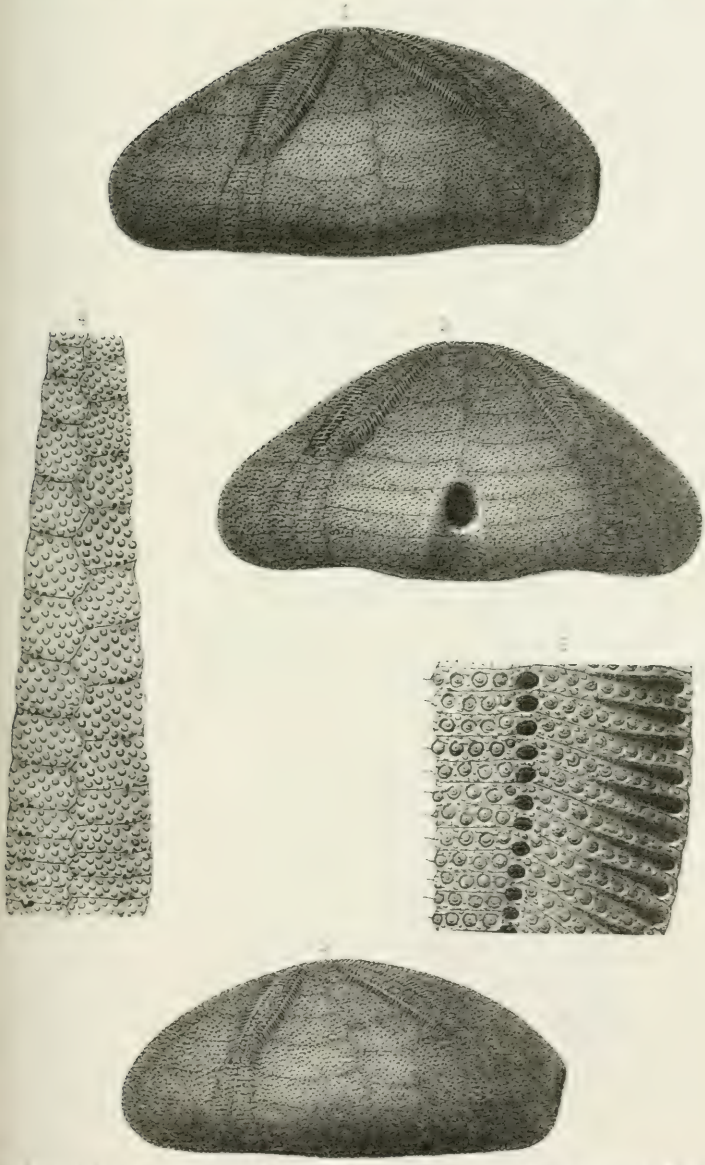
Echinanthus Pouechi, Cotteau. Eocène moyen.



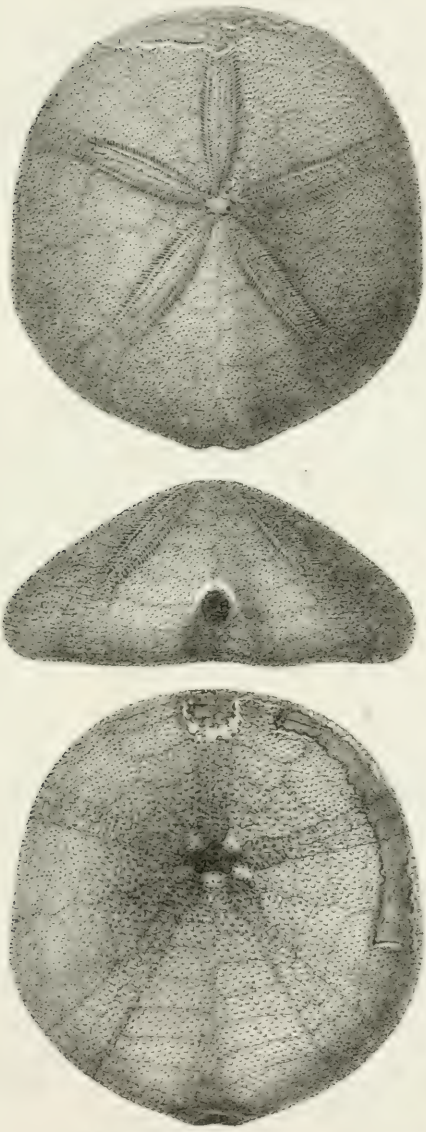
Echinanthus arizensis, Cotteau. Eocène moyen



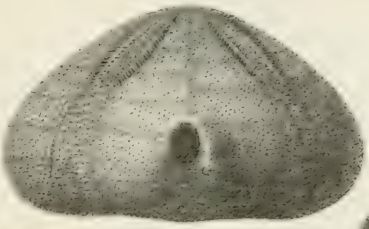
Echinanthus arizensis. Cotteau. Eocène moyen.

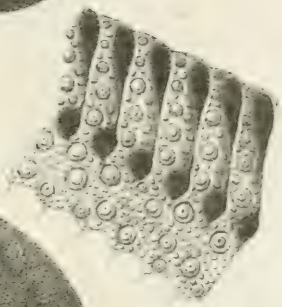


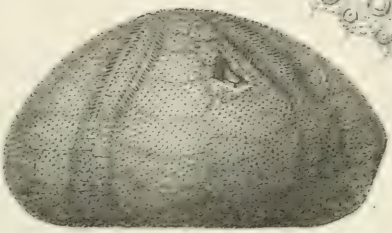
1-4. *Echinanthus arizensis*, Cotteau. Eocène moyen.
5. *E.* _____ *latus*. _____

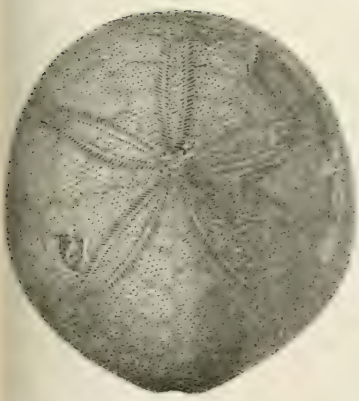


Echinanthus latus. Cotteau, Peron et Gauthier



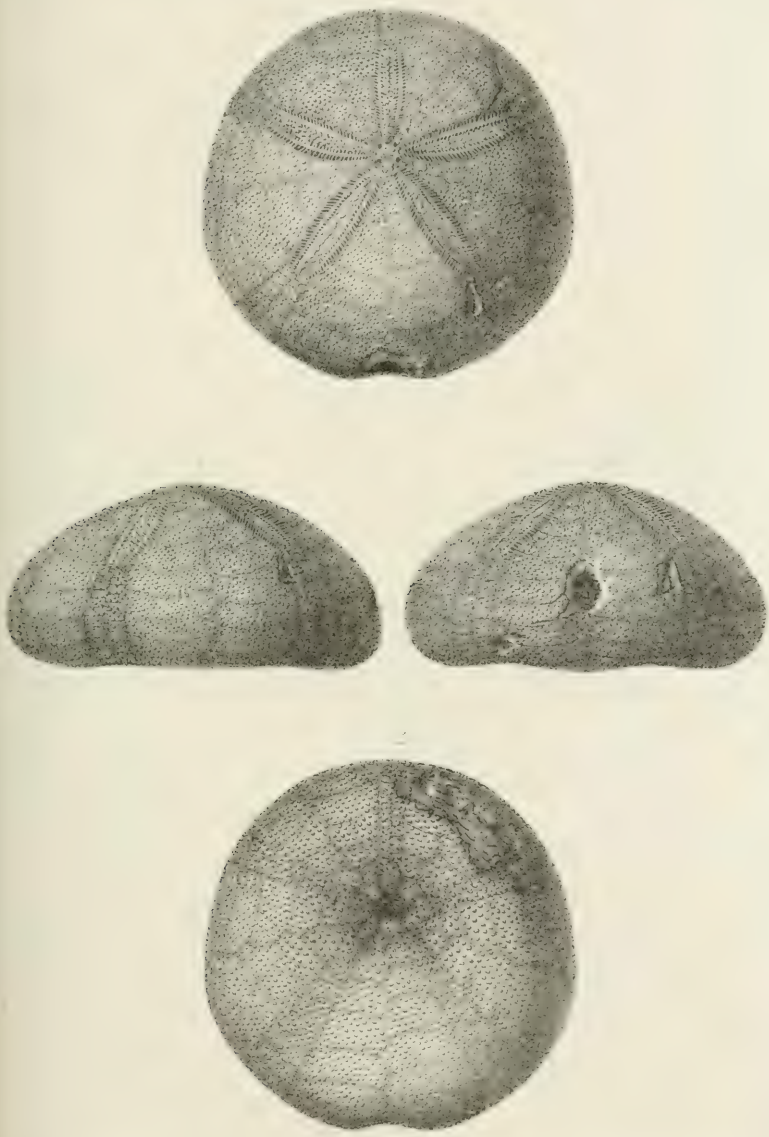






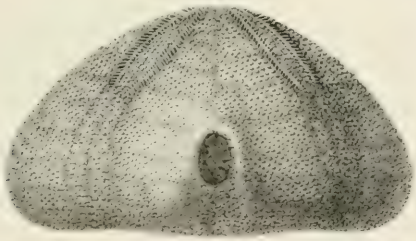
Humbert lith. G. Masson, Editeur. Imp. Becquet fr. Paris

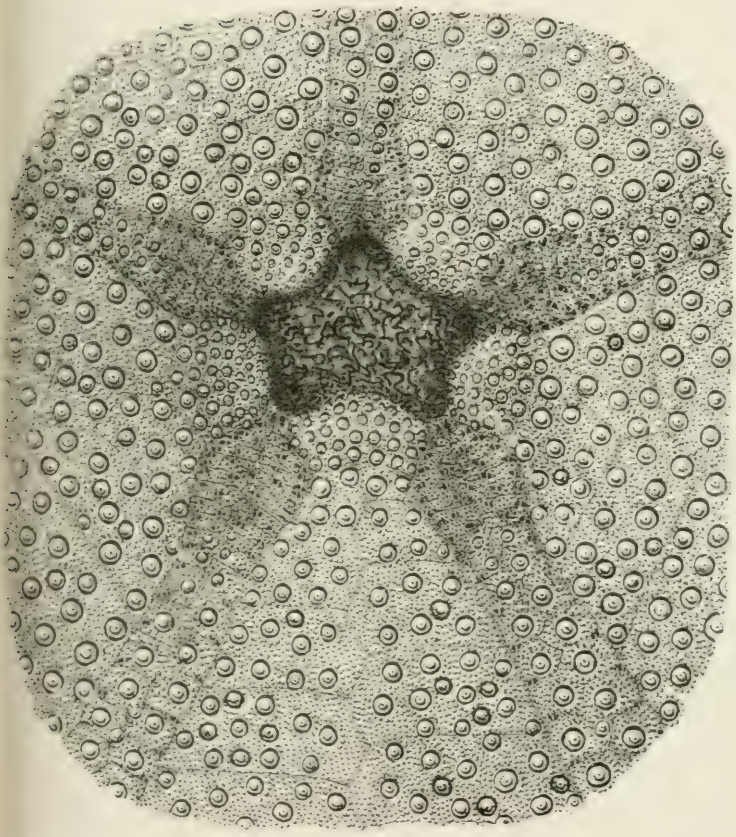
Echinanthus Rousseli, Cotteau. Eocène moyen.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris.*

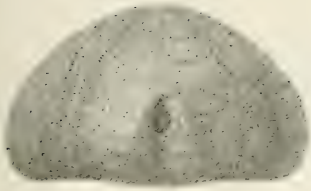
Echinanthus Rousseli, Cotteau. Eocène moyen.

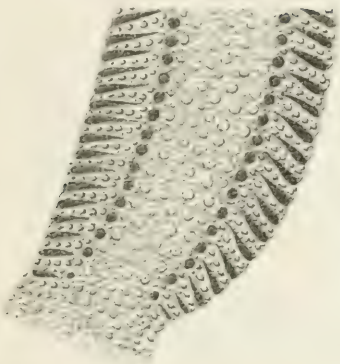


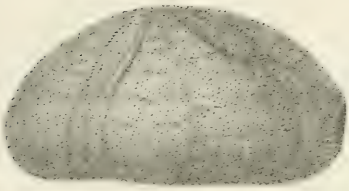


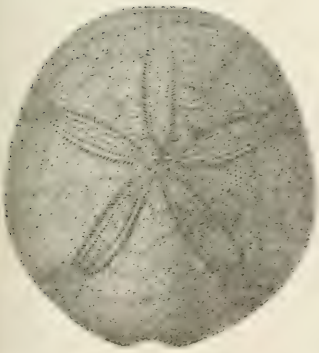
Humbert lith. G. Masson, Editeur. Imp. Becquet fr Paris

Echinanthus Rousseli, Cotteau. Eocéne moyen.



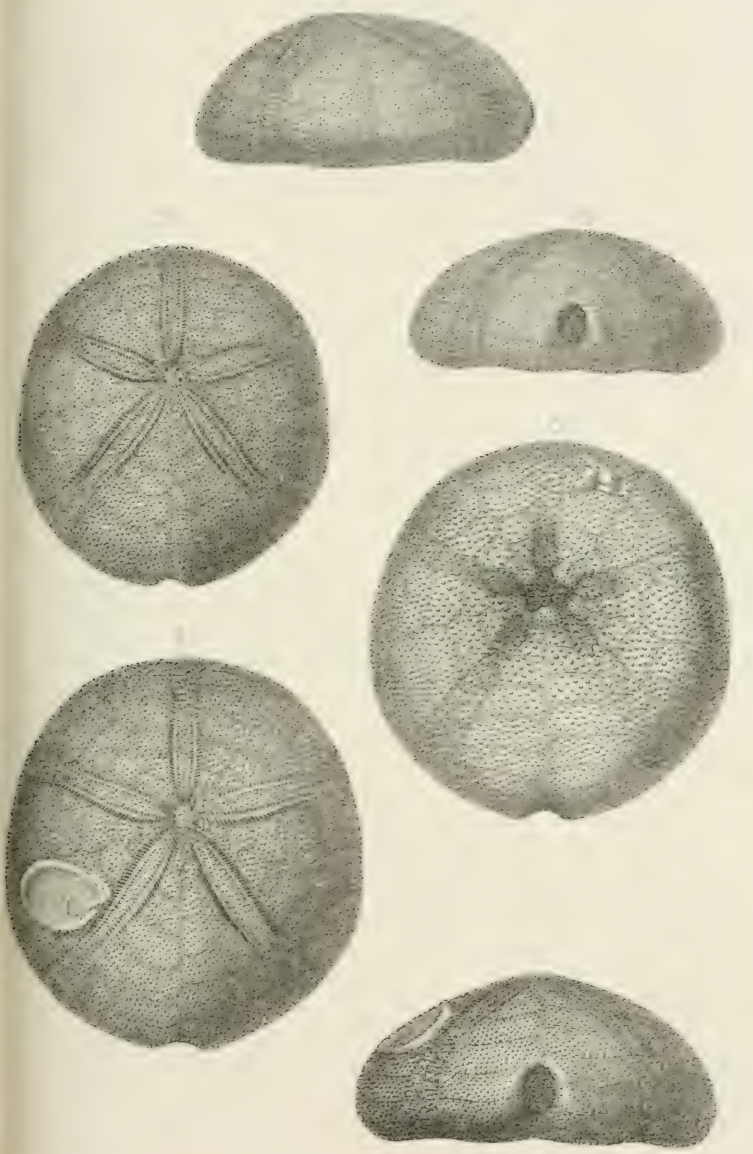




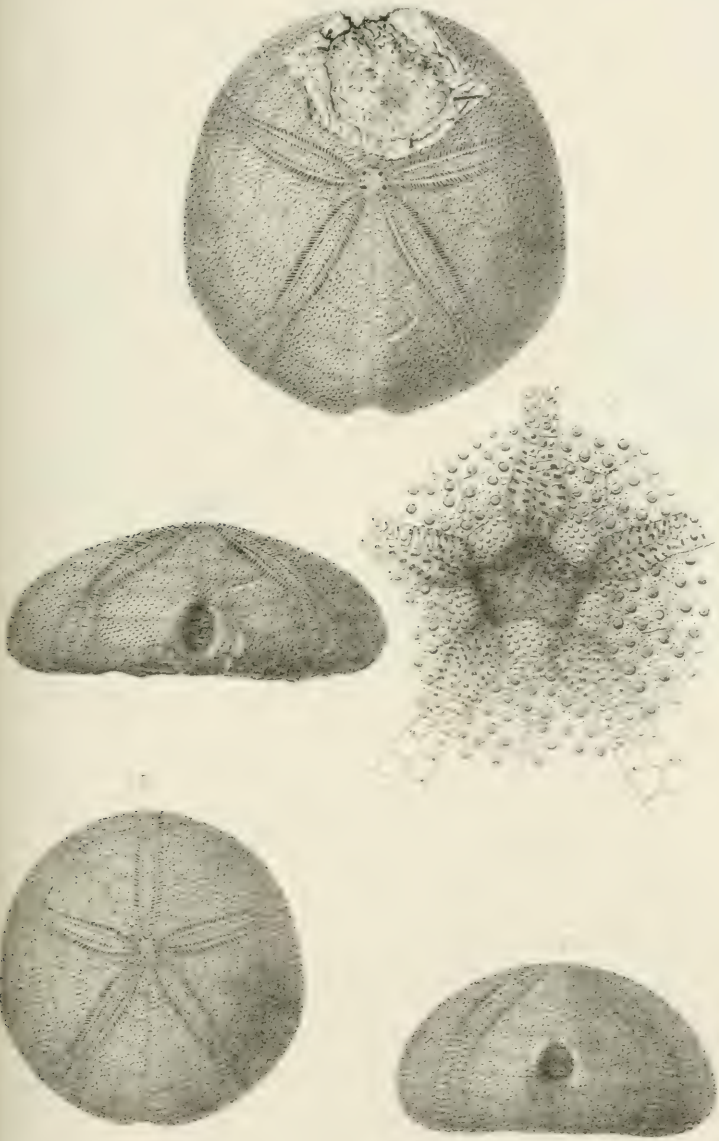


Lumbert lith. G.Masson, Editeur. Imp. Becquet fr. Paris

Echinanthus pyrenaicus, Cotteau. Eocène moyen

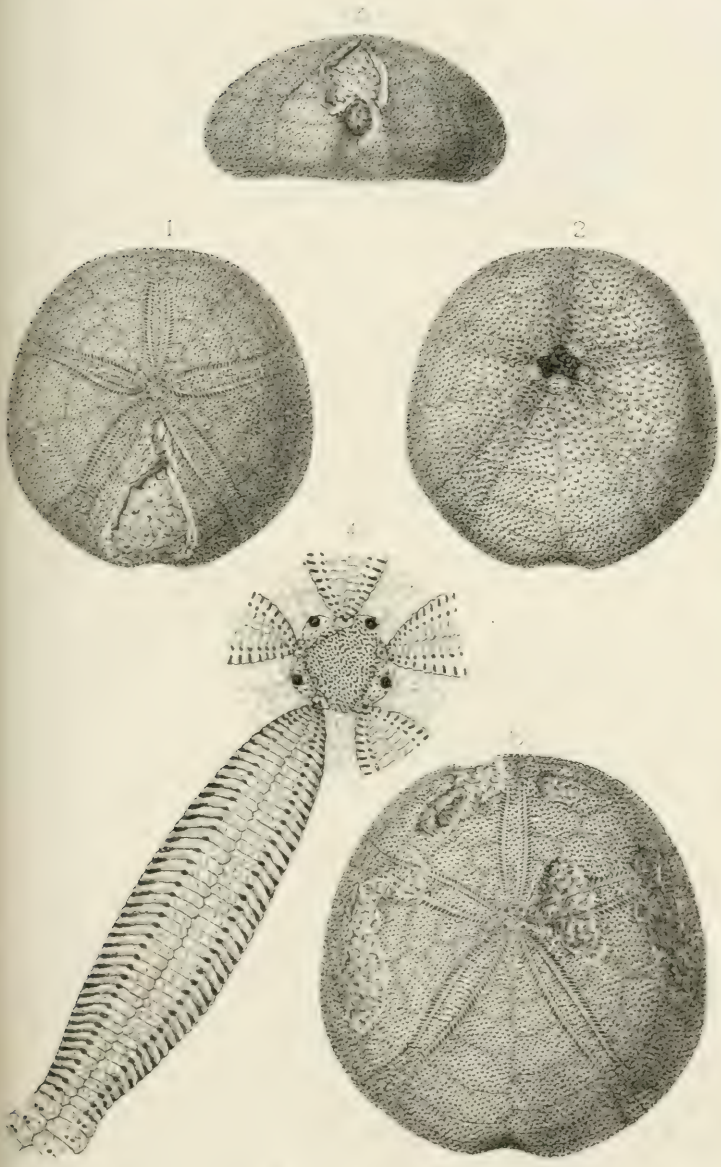


Echinanthus ataxensis, Cotteau Eocène moyen



[illegible] Masson, Editeur. [illegible]

1-3. *Echinanthus alaxensis.* [illegible]
4-5. *E.* ——— *rayssacensis* ———



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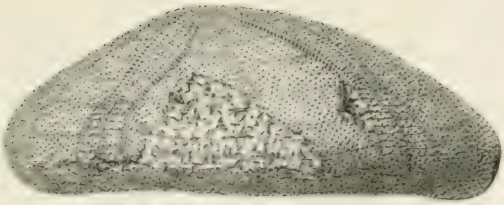
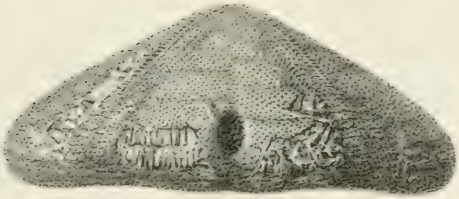
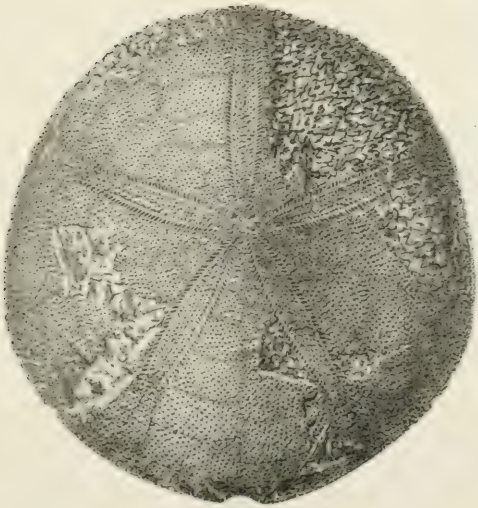
Echinanthus rayssacensis. Coteau Eocène moyen.

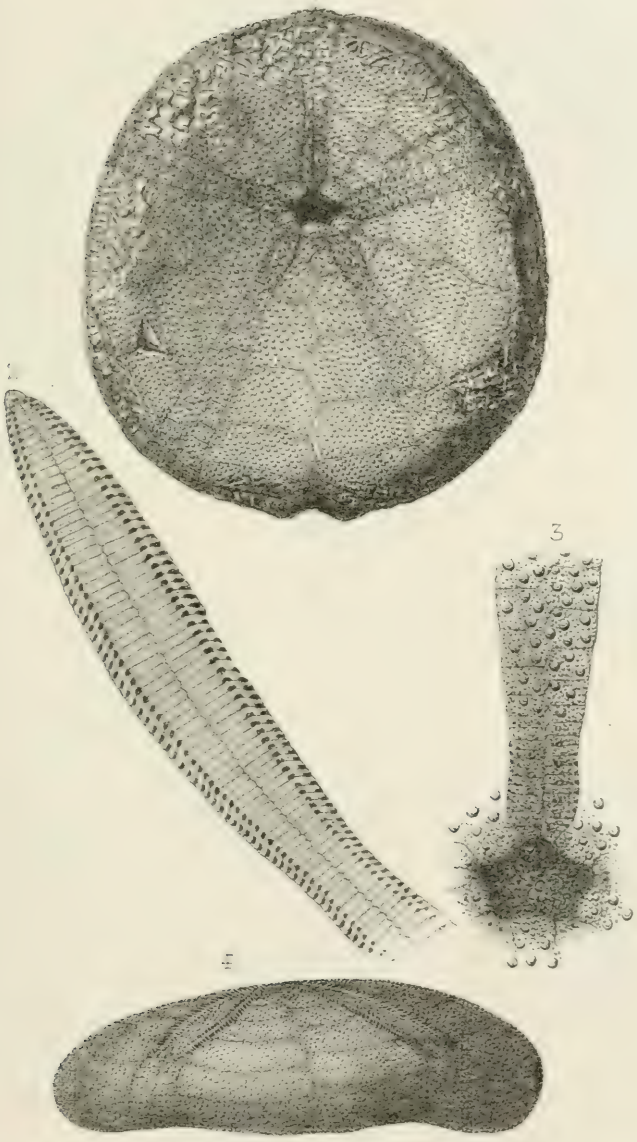






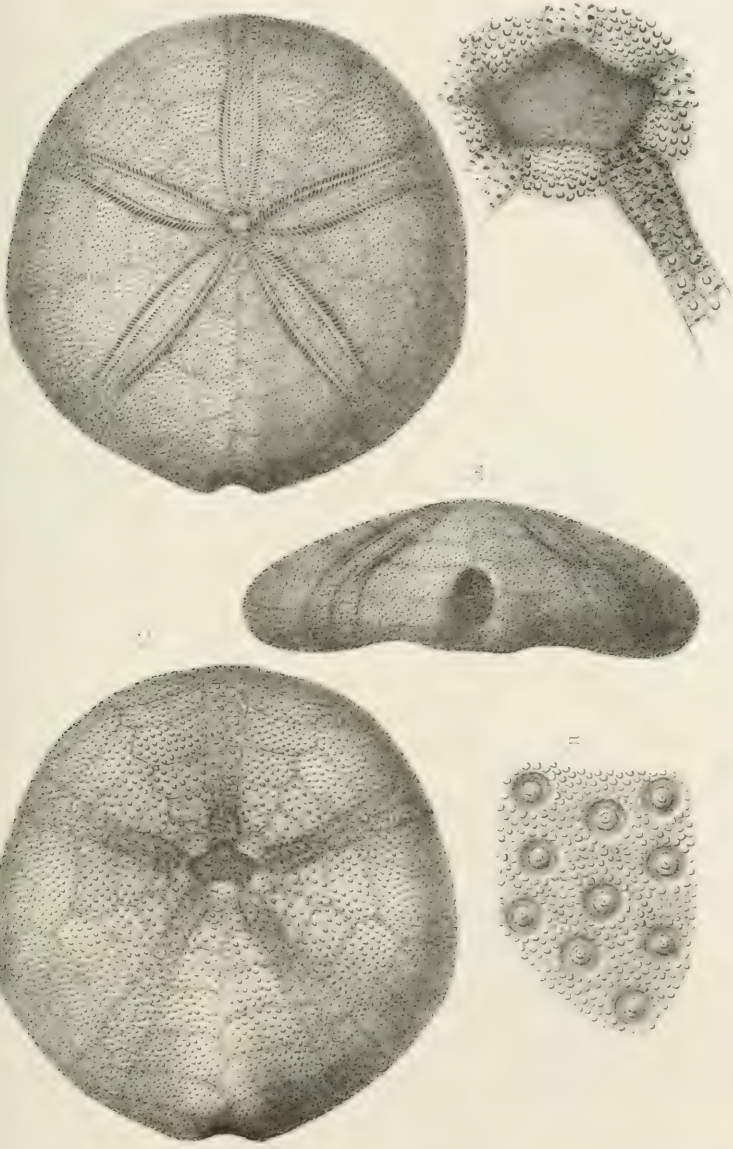
Humbert [illegible] G. Masson Editeur Imp. Becquet fr. Paris.

Echinanthus carinatus, Cotteau. Eocène moyen



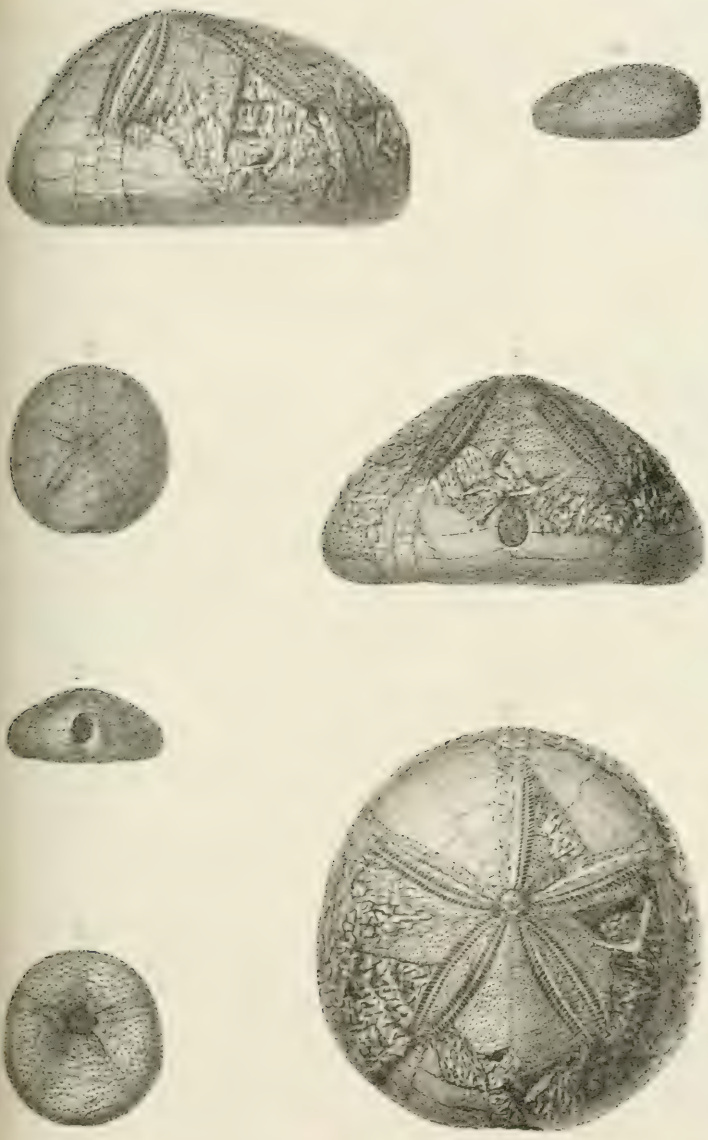
Humbert lith. G. Masson Editeur Imp. Becquet fils Paris.

1-3 *Echinanthus carinatus*, Cotteau. Eocène moyen.
4 *E.* _____ *Heberti*, _____ _____.



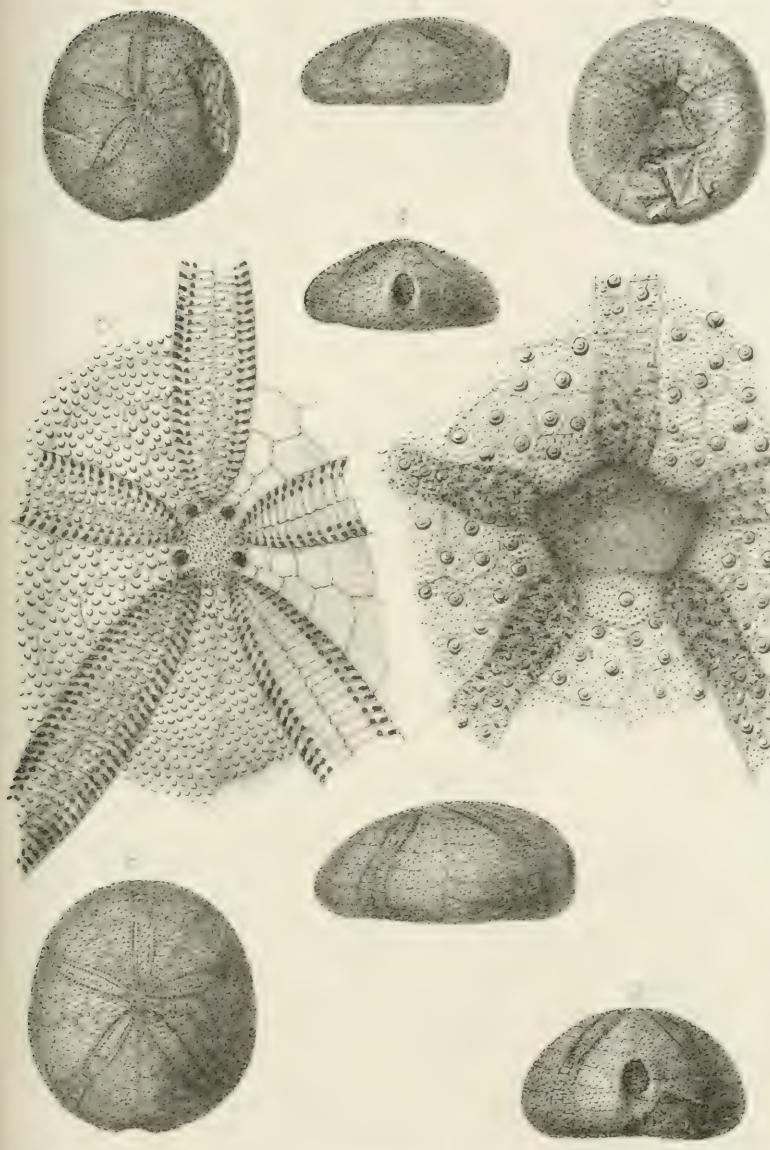
G. Masson, Editeur

Echinanthus Heberti, Cotteau. Eocène moyen.

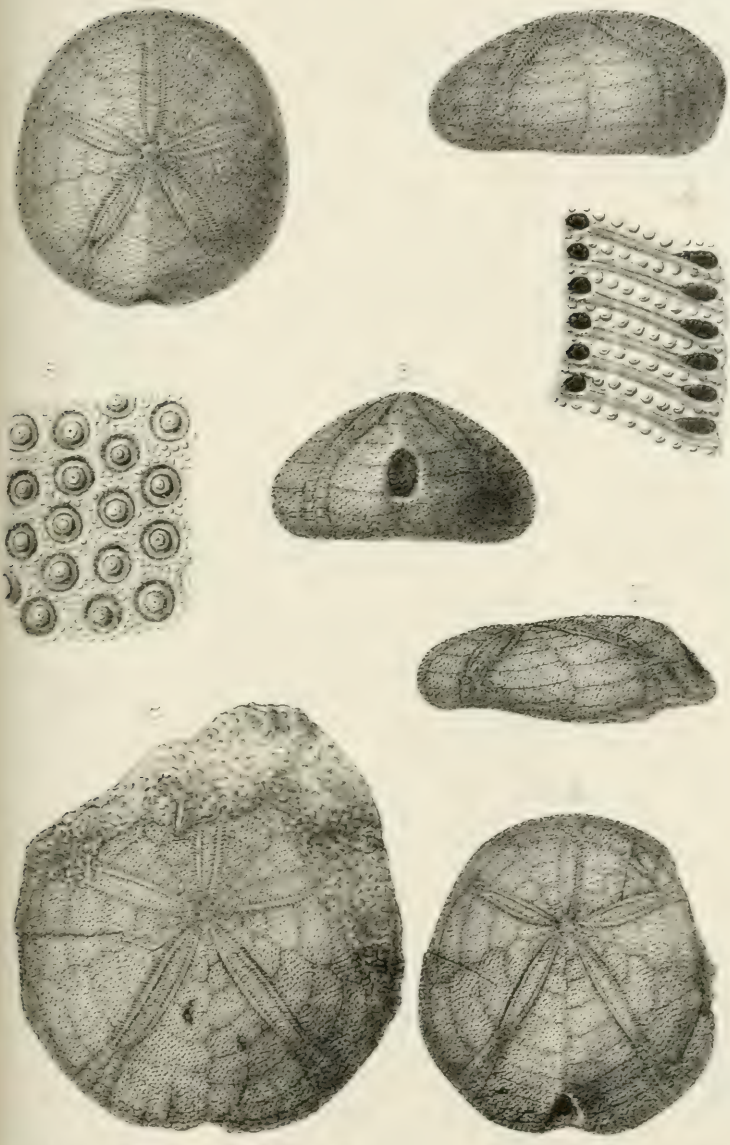


G. Masson, Editeur. Imp. Becquet fr. Paris.

1-3. *Echinanthus Archiaci*, Cotteau. Eocène moyen.
4-7. *E.* _____ *Cotteaui*, Hebert. _____

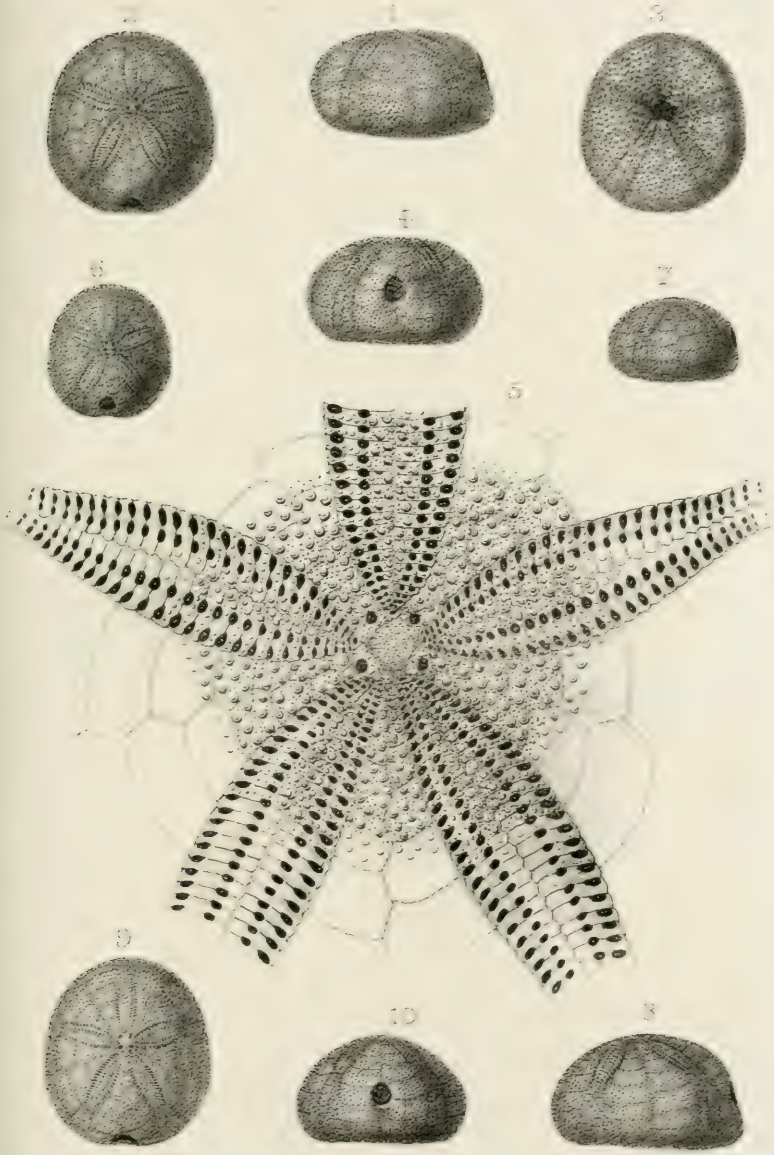


Echinanthus Cotteaui, Hébert

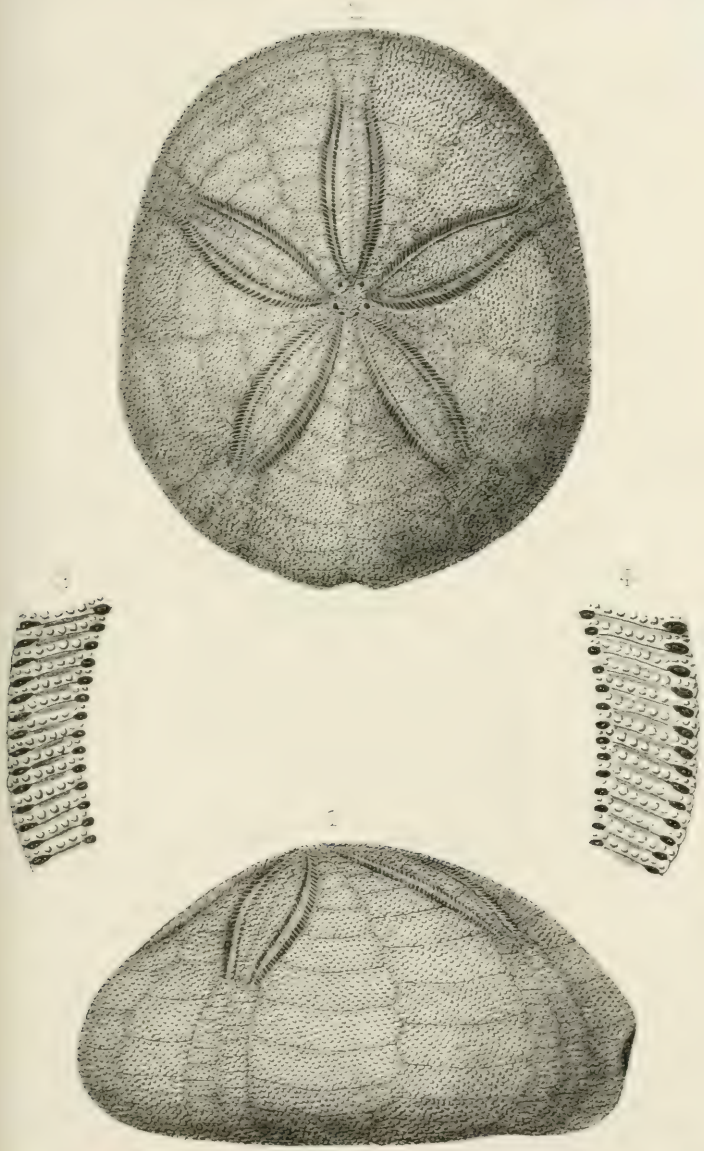


1-5. *Echinanthus Cotteaui*, Hébert. Eocene m[illegible]

6-8. *E.* ——— *gracilis*, Cotteau ———

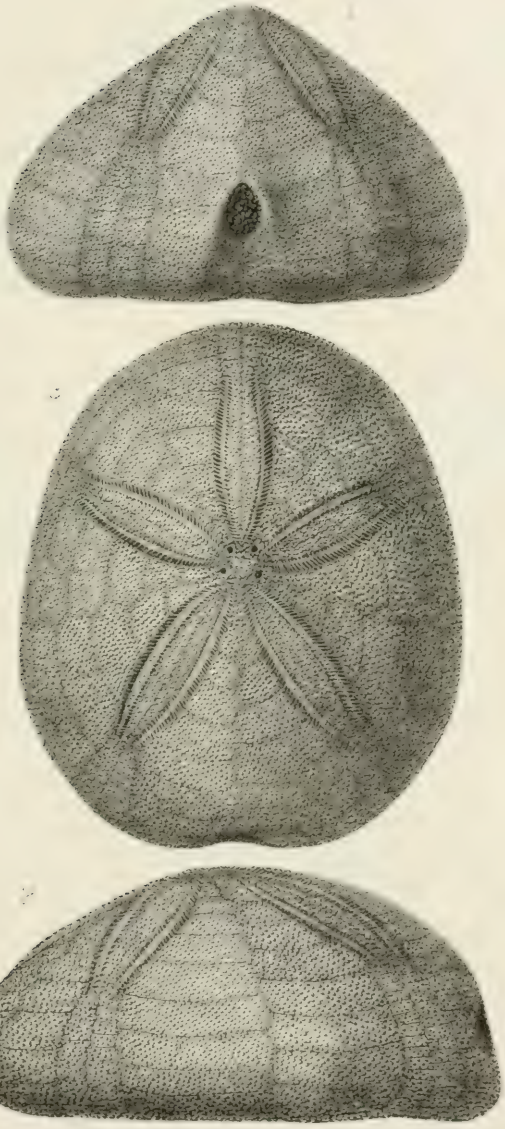


Echinanthus Wrighti. Côteaux. Eocène moyen.

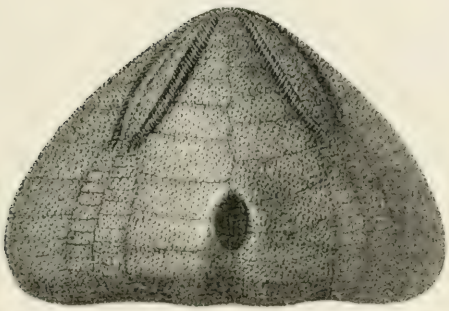


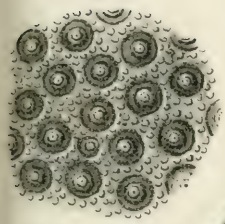
Lumbert lith

Echinanthus sopitianus d'Archiac. Desor. Eocène supérieur.



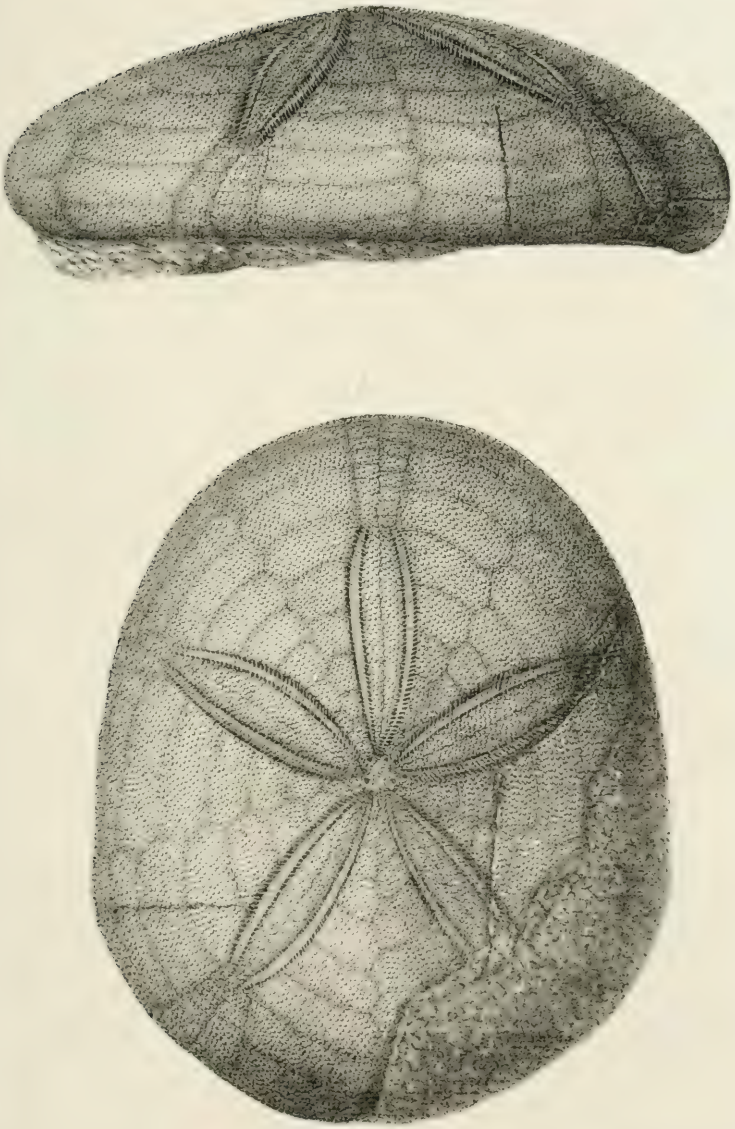
Echinanthus septianus (d'Archiac), Desor. Eocène supérieur





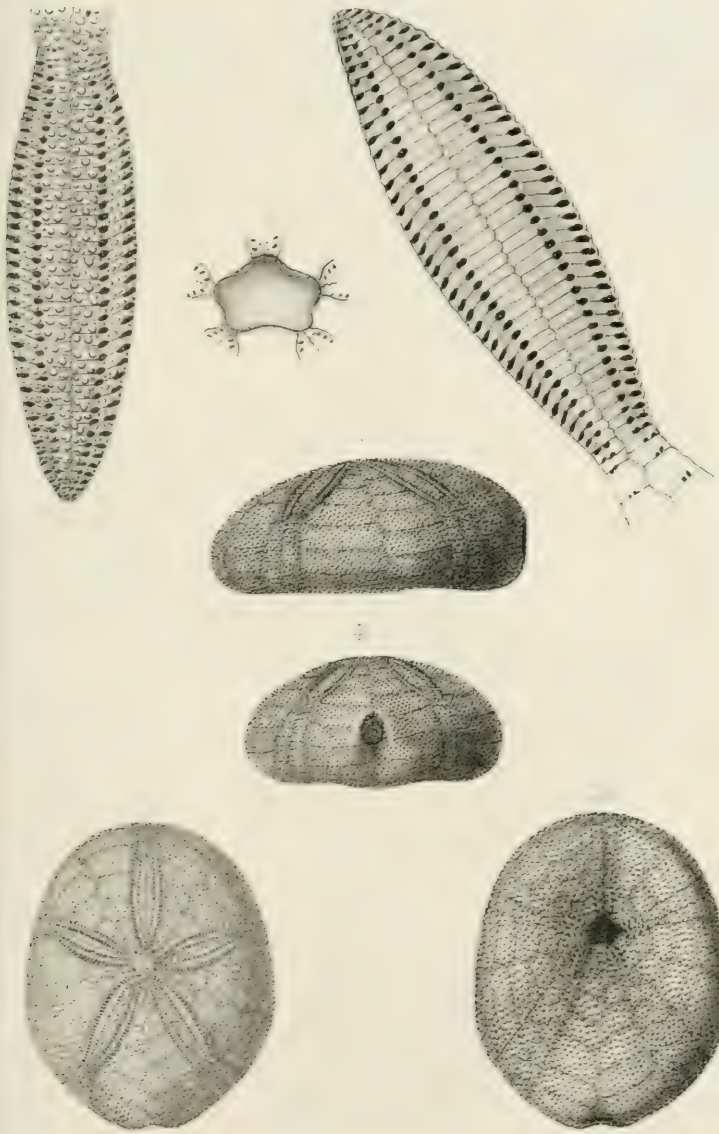
Humbert lith. GMasson, Editeur. Imp Becquet & Pilon

Echinanthus sopitianus (d'Archiac), Desor. Eocène supérieur.



Humbert lith. G. Masson, Editeur. *Imp. Becquet fr. Paris*

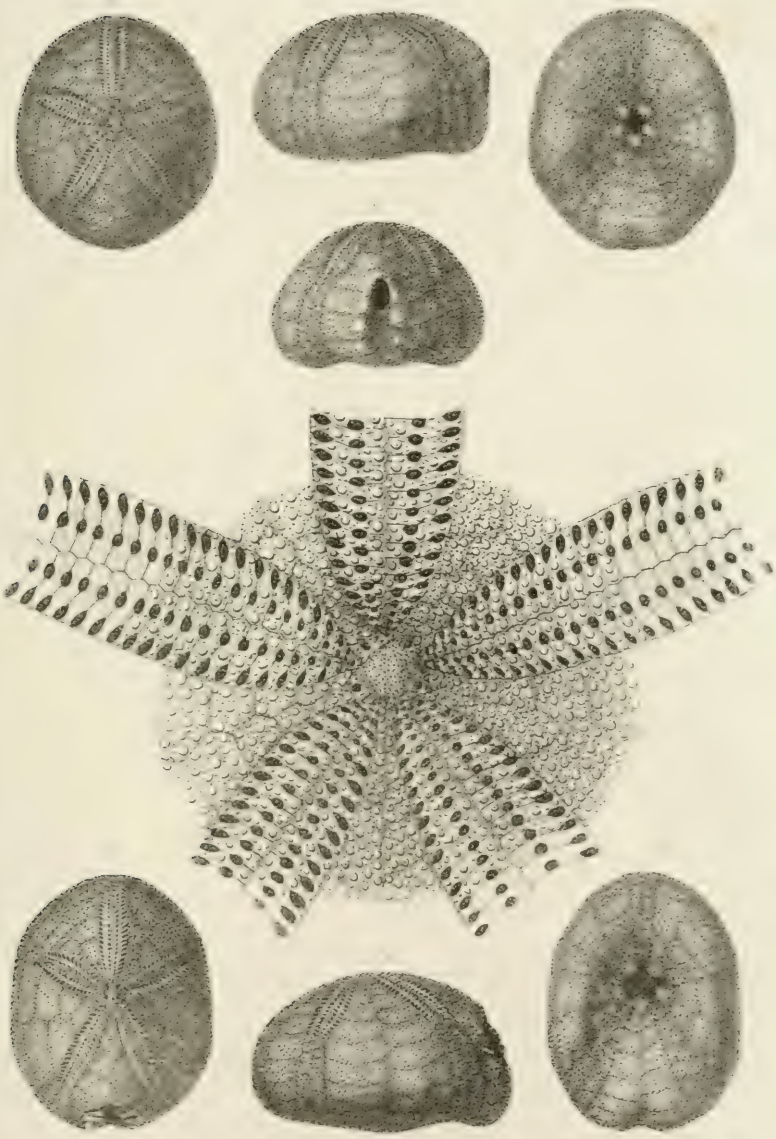
Echinanthus septiamus (d'Archiac) Desor. Eocène supérieur.



G. Masson, Éditeur

Imp. Becq...

Echinanthus biarritzensis, Cotteau, ...



Echinanthus Badinskii Pomel. Eocène supérieur.

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